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NAS FORT WORTH
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FINAL RCRA FACILITY INVESTIGATION FOR AREA OF CONCERN 2 VOLUME 2 OF 2 PART
1 NAS FORT WORTH TX
11/1/2000
CH2M HILL



**NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 652

HQ Air Force Center for Environmental Excellence

**Final
RCRA Facility Investigation Report
Area of Concern 2
NAS Fort Worth JRB, Texas**

**Volume II of II
Appendices**

Contract No.: F41624-94-D-8053-0039
Project No.: W/O 72435



Prepared by:
CH2M HILL, Inc.

November 2000

TAB

APPENDIX A
GEOPHYSICAL INVESTIGATION SUBCONTRACTOR REPORT

**REPORT OF GEOPHYSICAL SEISMIC REFLECTION SURVEYS
CONDUCTED FOR CH2M HILL, Inc.
AT
NAS FORT WORTH, TEXAS**

InterpreTech/SeisPulse LLC

Geophysical Investigations for
Geotechnical Services

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December 29, 1997

Ms. Margaret O'Hare
Project Manager
CH2M HILL, Inc.
5339 Alpha Road
Suite 300
Dallas, Texas 75240

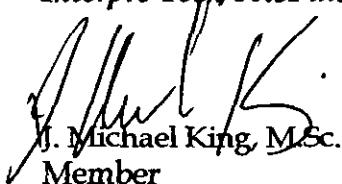
Re: Seismic Reflection Survey, NAS Fort Worth, Texas

Dear Ms. O'Hare:

InterpreTech/SeisPulse is pleased to present the results of our seismic reflection geophysical survey conducted at NAS Fort Worth, Texas. Our results are presented as standard seismic sections, amplitude profiles and structural cross-section interpretations in Excel format.

We appreciate the opportunity to be of service to CH2M HILL, Inc. on this project. Comments on this report are welcome. Should you have any questions regarding our report of geophysical activities, please contact this office.

Very truly yours,
InterpreTech/SeisPulse LLC



J. Michael King, M.Sc.
Member

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SECTIONS

1. NAS FORT WORTH, TEXAS	x
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APPENDICES

1. APPENDIX A - CHECK SHOT VELOCITY SURVEY	
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I. INTRODUCTION

The area of our geophysical investigation was located in the west central portion of NAS Fort Worth, Texas. Geologically, the facility is situated on the Western Gulf Coastal Plain with geologic units of Cretaceous through Quaternary age being described on site. The lower confining layer (bedrock) of the shallow, discontinuous aquifer under much of NAS Fort Worth consists of a well-lithified carbonate sedimentary rocks of the Cretaceous age (either the Goodland or Walnut formation). The sediments that overlie bedrock are, for the most part Pleistocene terrace deposits that consist of unconsolidated silts, sands and gravels. Knowledge of the thickness and consistency of these deposits and the definition of anastomosing channels carved into the bedrock is critical to the hydrologic understanding of this site.

In October of 1997, *InterpreTech/SeisPulse* contracted with CH2M HILL, Inc. to acquire seismic reflection data at the site using the *SeisPulse Development Corporation* "Vertical Reflection Profile" (VRP) method of seismic survey and the *SeisPulse Seismic Source* (pat.). The primary purpose of the study was to map the top of bedrock.

Field data was acquired from October 22 through October 27, 1997, at the Naval Air Station (NAS) Fort Worth, Texas. Preliminary findings were presented to CH2M Hill, Inc. in mid-November 1997. Final data interpretation includes a boring program conducted by CH2M Hill, Inc. during the last two weeks of November 1997.

The investigation was conducted in four phases; a single velocity check shot survey, seismic field data acquisition, seismic data processing and data interpretation.

A single velocity check shot survey was conducted in the southeast portion of the survey area at boring 35-04. A velocity check shot survey provides one element for "ground truthing" of the reflection seismic data. This is accomplished by providing one-way and interval travel times for the determination of velocities necessary for time-depth conversion.

Field production consisted of the acquisition of six (6) seismic reflection lines. The six seismic lines consisted of three (3) lines oriented north-south and three (3) lines oriented east-west.

II. DATA ACQUISITION

Data for this investigation was acquired by recording data from each source impulse into a single active channel of a 12-channel Geometrics S-12 seismograph and single Mark Products geophone (Mark 40A). All data was recorded at a 1/4 msec sample interval and a record length of 512 msec.

source-receiver offsets to increase the signal to noise ratio while the VRP method sums a number of vertical acquired traces, at a single station, to arrive at an increase in the signal to noise ratio.

Reflection Profiles

The investigation resulted in the acquisition of six (6) seismic reflection survey lines using vehicle mounted operations. The seismic data was acquired on 20 ft. and 30 ft. station spacing. The signal to noise ratio of the final record at each shot point was increased by summing individual records acquired at each shot point. This rationale assumes that all reflective energy will arrive at the same time and thus be additive, while noise is random and will not be additive. Typically, a minimum of six (6) sums were used throughout the survey.

Topographically, the site of the geophysical investigation can best be described as relatively flat with elevations ranging from 651 feet above mean sea level (msl) to 675 foot msl. Due to the lack of major relief in the surface topography, the interpreted seismic data is presented without elevation corrections to a datum plane. The elevation data, provided by CH2M HILL, Inc., are integrated into the interpreted structural cross-sections.

The VRP's were acquired on and in close proximity to active runways and taxiways and this resulted in "out-of-the-plane" noise that is reflected on some the acquired data. Individual seismic reflection "picks" of events were made at the trough following the onset of a peak associated with the top of bedrock. These picks will and do vary with the frequency of the reflector. Lower frequency reflectors may indicate a change in reflective interface (i.e., weathered bed rock to competent bedrock).

All seismic sections and structural cross-sections were plotted using south and west justification on the left. Depths to bedrock from available well boring data, which was adjacent to or in close proximity to the seismic lines, were converted to time and then plotted on each of the seismic sections.

Velocity Surveys

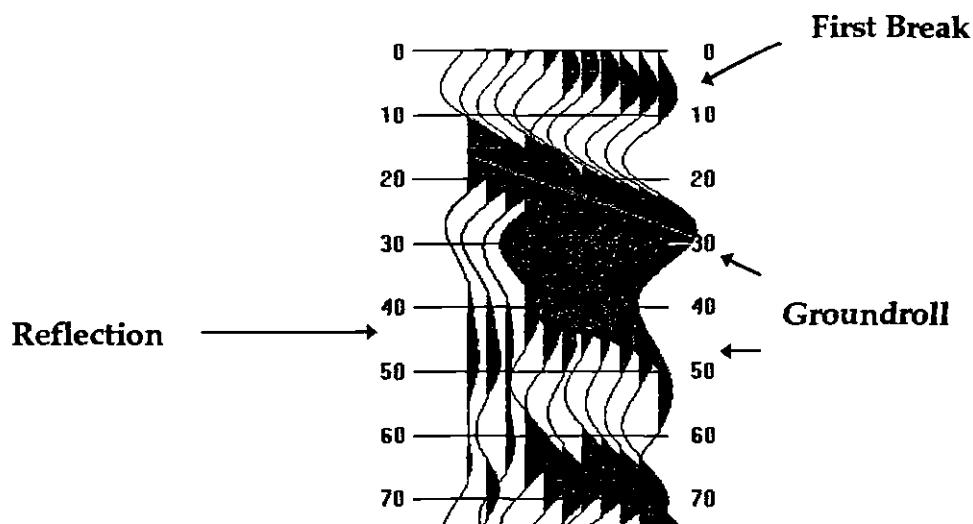
A Velocity survey was completed to a depth of nineteen (19) feet at boring 35-04, whereas the depth to bedrock is estimated to be greater than twenty-eight (28) feet. Data was acquired using a SeisPulse down hole tool for use in 2 inch/dia well borings. Check shot intervals were two (2) feet in vertical separation. While average velocity from bedrock to the surface was not obtained in this survey, it did provide some insight into the near surface velocities (see Appendix A).

Quality Control/Quality Assurance

Since we deal in "near field" effects, one method of controlling the quality of shallow seismic data acquisition is the assurance that the data acquired contains identifiable reflections and not another source of wave energy. One of the most common methods is to conduct a walk-away noise test. This test is conducted by providing a stationary source and moving a geophone (receiver) at one (1) foot increments away from the source to a typical distance of nine (9) to eleven (11) feet. This allows the identification of the ground roll (the direct surface wave between the source and receiver) and reflectors. The ground roll, moving at a constant velocity, will appear sloped while the reflector should appear coherent and flat.

A representative example of those noise tests conducted at NAS Fort Worth is shown below and consists of non-filtered field data presented in profile form.

Walk-Away (1 ft. Spacing)



III. DATA PROCESSING

The seismic data processing was completed on a microcomputer using *EavesDropper*, a set of commercial data processing algorithms available from the Kansas Geological Survey. The processed data was exported to *Seismic Micro Technology Kingdom Suite* for time picking and coloring. The final sections were exported to *Adobe Illustrator* for drafting.

The initial data processing flow was similar to those used to process seismic data in oil and

gas exploration except for the algorithms necessary to provide time variant filtering and spectral whitening.

Table 1. Data Processing Flow

1. Conversion from Geometrics to KGS *EavesDropper* format,
2. Edit traces,
3. Sort Data,
4. Scale (500 msec window),
5. Filter - bp(HZ) 15-30-50-80
6. Migration,
7. Residual statics (10 msec window, 3 msec max shift),
8. Stack,
9. Mute.

Numerous band pass filters were applied to the data in an effort to determine the optimum filter parameters. Final data processing was completed using a band pass filter whose frequencies were 15-30-50-80 (HZ).

IV. INTERPRETIVE RESULTS

Velocity Check Shot Survey

A Check shot velocity survey was completed at well boring 35-04 located at station 101 of line NAS-5. This velocity survey was initiated by placing a geophone at the lowest accessible depth of a well and measuring the direct travel time of energy from a source located at the surface to the geophone. The geophone is raised (in this case two (2) feet) and the procedure is repeated. This results in a number of time-depth pairs that are then plotted. The derivative or slope of a line connecting these time-depth pairs is used to determine interval velocities. The absolute difference between these interval velocities indicates differences in rock properties and thus determines the magnitude and type of reflector that is generated by a boundary between different rock properties (ie. Density and velocity).

Velocity

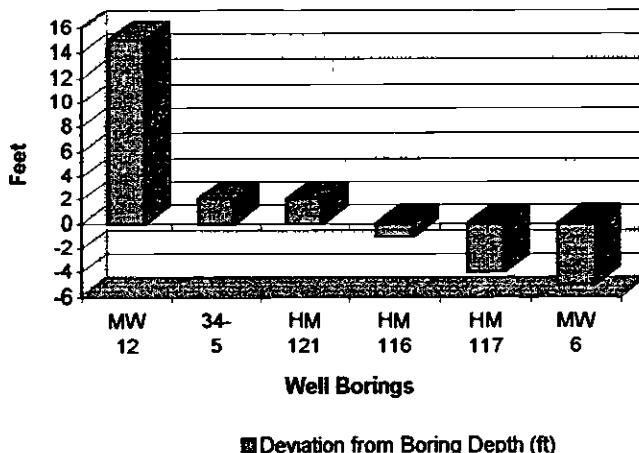
Table 2 offers a comparison of time \times velocity = depth estimations using an average velocity of 1600 ft/sec with bore hole bedrock depths.

Table 2.

Boring	Boring Bedrock Depth (ft)	Closest Reflector Depth (ft) Tie with Boring using V=1600 ft/sec	Error Feet	Error Percent	Comments
MW-12	19	34	15	44%	Boring 75' from line
34-5	28	30	2	6%	
HM-121	31	33	2	6%	
HM-116	32	31	-1	6%	
HM-117	36	32	-4	12%	
MW-6	37	32	-5	14%	Boring 75' from line

Note: V= average velocity used for time to depth conversions

Deviation from Actual



Seismic Synthetics

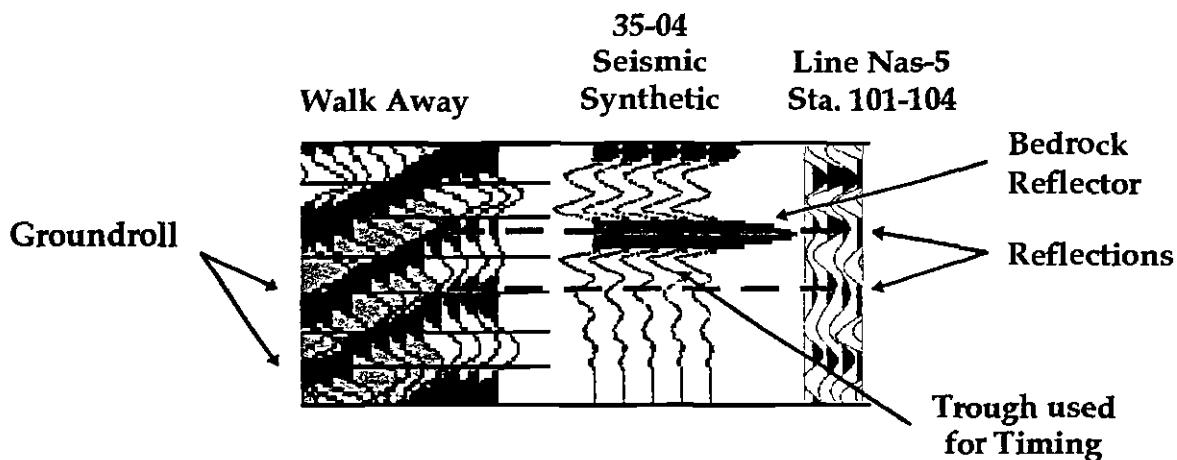
Interval velocities and their associated unit thickness were used to generate a seismic synthetic for the check shot velocity survey. Velocity check shot surveys are, by the nature of their acquisition, "free floating" or not tied directly to the ground surface because of geometric and wave characteristics associated with the first five feet. Thus, in the generation of the seismic synthetic a velocity for the first five feet is often assumed. In this case a velocity of 1000 ft/sec was employed in the generation of the seismic synthetic.

Additional correlation complexities include the different sources used to generate or acquire data sets. The seismic synthetics were generated using a Ricker wavelet, the check

Additional correlation complexities include the different sources used to generate or acquire data sets. The seismic synthetics were generated using a Ricker wavelet, the check shot velocity survey's were acquired using a hammer and plate and the reflection data was acquired using the *SeisPulse* source. The combination of these sources can require a shift in time to make "character" correlation's between the seismic synthetic and the reflection data.

The event that represents the Cretaceous bedrock on the seismic data corresponds to a strong peak above the trough chosen as the time pick. The average velocity used to convert the timed event to depth throughout the survey area was 1600 ft/sec.

The figure below consists of a walk away noise test conducted near boring 35-04, a seismic synthetic based on uphole velocity information collected at boring 35-04 and a portion of the seismic line Nas-5 that ties boring 35-04. Noted in the figure is the reflection peak identified with bedrock and the trough below the bedrock peak that was used for timing purposes.



Final Sections

The primary objective of the reflection seismic survey was to identify and map the top of the Cretaceous bedrock formations. Identifications of coherent events on the raw field records are essential for the proper identification and timing of reflection events on the final seismic sections. Borehole velocity information and velocity information extrapolated from geologic descriptions of boreholes provided the identification of the reflection event associated with the bedrock interface.

Variations in interval velocities are common in the shallow geologic section and are due to variations in the distribution of materials. Trace to trace variation in the apparent structure of the bedrock reflector is in part real and in part the result in variations in the interval velocity of shallower materials. To increase the reliability of the applied velocities, a combination of check shot, seismic synthetic correlation's, line ties and extrapolated average velocities from borehole sample data are use to make time-to-depth conversions presented with this report.

Check shot velocity data is one element of "ground truthing" reflection seismic data while another is the ability to time tie line intersections with an identifiable reflector throughout the survey. The bedrock reflectors were time tied at all line intersections in the survey. Deviations in calculated depth of bedrock reflectors from actual borehole depths varied due to the use of a constant velocity throughout the survey area. Seismic depth deviations from actual can also be an indicator of the seismic survey accuracy within localized areas.

While near surface interval velocities may vary from station to station resulting in shifts in the accuracy of the depth to bedrock, frequency and amplitude variations in the "doublet" identified with the top of bedrock may represent changes in the interface between the Quaternary sediments and bedrock. Such material density changes could include water saturation or gradational transitions from sediments to bedrock (i.e.: compacted gravel).

The final interpretation of the seismic data incorporates a trough whose time pick is denoted by a red line. The timed traces were converted to depth using an average velocity of 1600 ft/sec and are presented both in spreadsheet and cross-section form.

V. INTERPRETIVE CHALLENGES

Each seismic investigation is unique, as such, each investigation presents its own interpretive challenge. In this case there is an area of potential error that may be induced into the interpretation and an unresolved miss-tie between a boring and a nearby seismic line.

The first is the reliance on a single velocity survey to apply a single averaged velocity across the entire investigation site. Borings that had direct seismic line ties and the single velocity survey, were located in an area of lower bedrock elevations. An average velocity of 1600 ft/sec that was used in the area of lower bedrock elevations may not be appropriate for shallow bedrock elevations.

The second is the apparent miss-tie between the depth to bedrock in boring MW-12 (19') and the depth to bedrock as indicated at station 101 of line NAS-4 (34'). While MW-12 does not directly tie to the seismic line with its location being 75 to 100 ft to the south of station 101, the greatest bedrock elevation change observed on the rest of the seismic data was an eight (8) foot rise along a sixty (60) foot run on line NAS-5. This

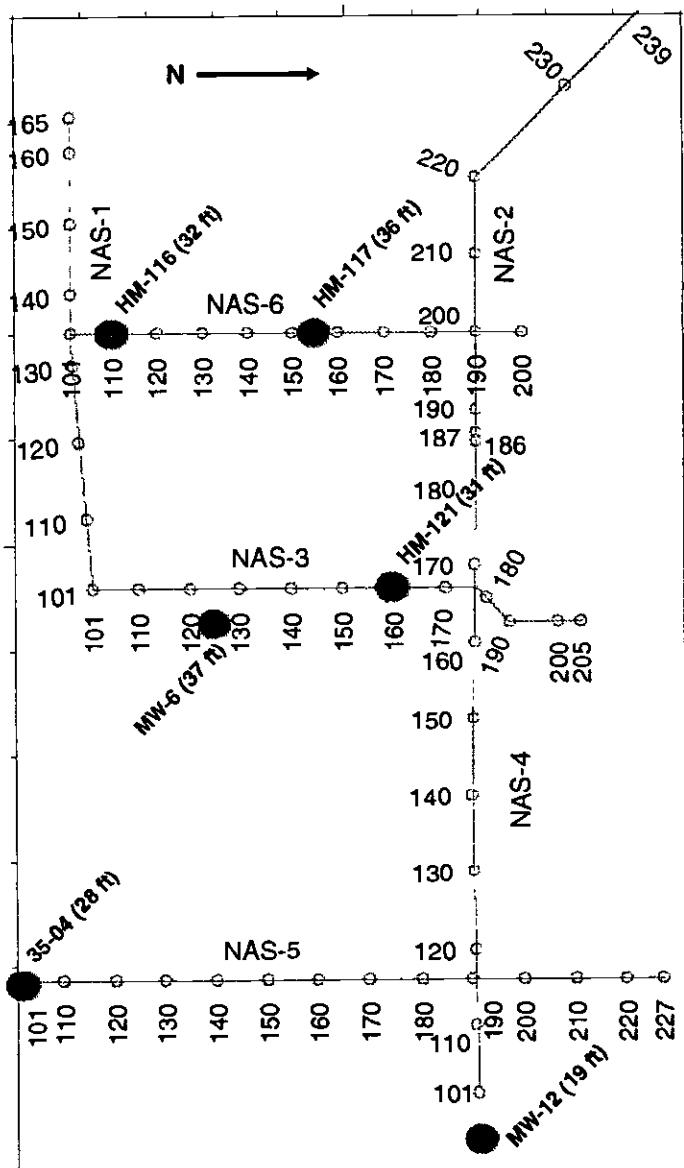
differential difference in depth to bedrock does not preclude the presence of a fifteen (15) foot escarpment between the boring and the seismic line, it is only unresolved by the present data set.

VI. LIMITATIONS

The methodology of seismic reflection has been successfully utilized by earth scientist since 1927, but the methodology contains certain variables that are inherent in the conversion from the time domain to depth. These variables include, but are not limited to; field acquisition parameters, data processing parameters, individual interpretation, spatial velocity, temporal displacement and spatial frequency.

InterpreTech/SeisPulse LLC has provided, for the exclusive use of CH2M Hill, Inc., its findings, conclusions and professional advice after preparing such information in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the field of geophysics. This acknowledgment is in lieu of all warranties either expressed or implied.

X/Y:



● Boring Name (depth to bedrock)

○ Shot Point

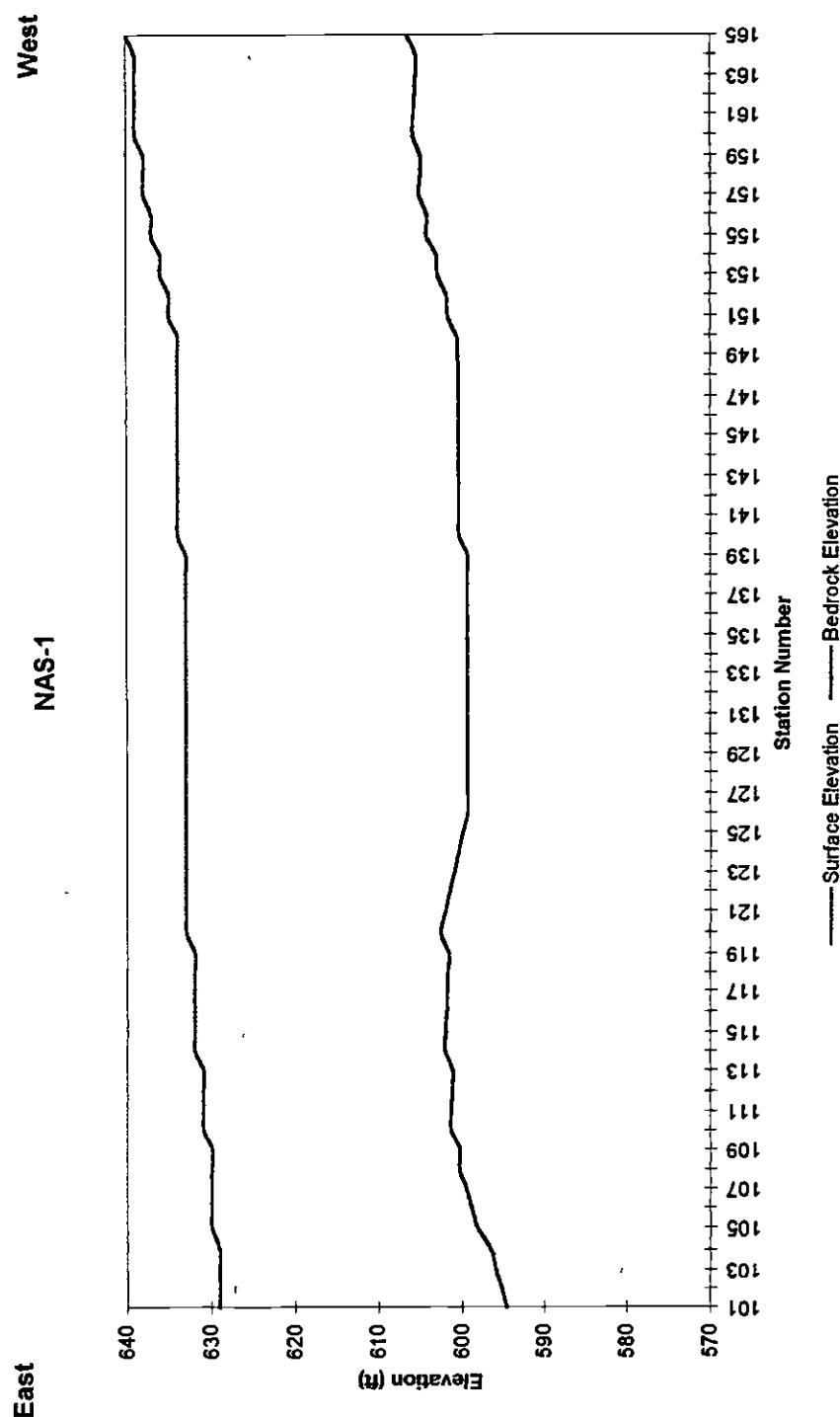
SEISMIC REFLECTION STATION MAP NAS FORT WORTH, TEXAS

Seismic Profiles

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TAB

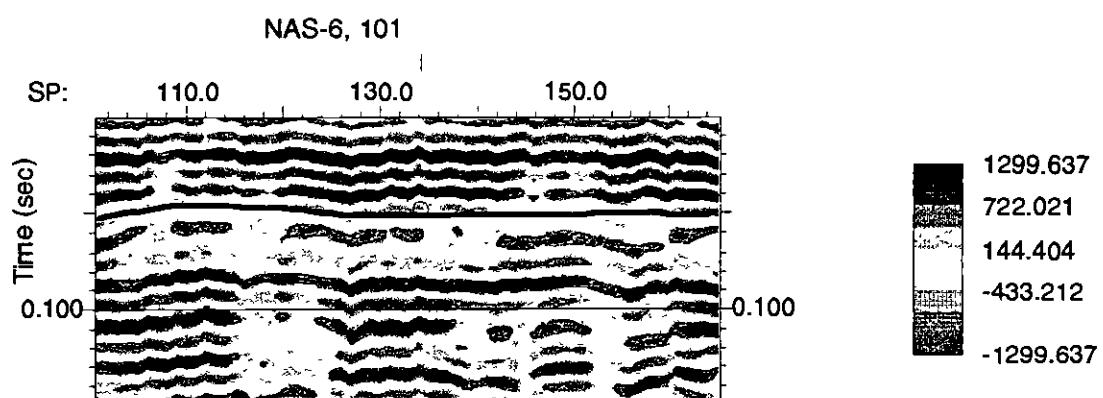
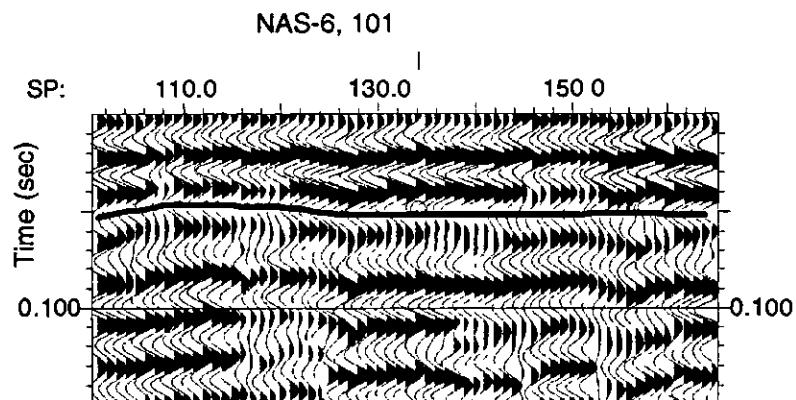
LINE L



NAS-1						
Station Number	Time to Bedrock	Depth to Bedrock	Surface Elevation	Bedrock Elevation	Well Depth	Comments
101	0.053	34	629	595		Ties NAS-3 @ Sta 1
102	0.052	34	629	595		
103	0.051	33	629	596		
104	0.051	32	629	597		
105	0.050	32	630	598	33 ft	HM-125 (300 ft South)
106	0.049	31	630	599		
107	0.048	30	630	600		
108	0.047	30	630	600		
109	0.047	30	630	600		
110	0.047	30	631	601		
111	0.047	30	631	601		
112	0.047	30	631	601		
113	0.047	30	631	601		
114	0.047	30	632	602		
115	0.047	30	632	602		
116	0.048	30	632	602		
117	0.048	30	632	602		
118	0.048	30	632	602		
119	0.048	30	632	602		
120	0.048	30	633	603		
121	0.049	31	633	602		
122	0.049	31	633	602		
123	0.050	32	633	601		
124	0.051	33	633	600		
125	0.051	33	633	600		
126	0.052	34	633	599		
127	0.052	34	633	599		
128	0.052	34	633	599		
129	0.052	34	633	599		
130	0.052	34	633	599		
131	0.052	34	633	599		
132	0.052	34	633	599		
133	0.052	34	633	599		
134	0.052	34	633	599		
135	0.052	34	633	599		Ties NAS-6 @ Sta 1
136	0.052	34	633	599		
137	0.052	34	633	599		
138	0.052	34	633	599		
139	0.052	34	633	599		
140	0.052	34	634	600		
141	0.052	34	634	600		
142	0.052	34	634	600		
143	0.052	34	634	600		
144	0.052	34	634	600		
145	0.052	34	634	600		
146	0.052	34	634	600		
147	0.052	34	634	600		
148	0.052	34	634	600		
149	0.052	33	634	601		

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150	0.052	33	634	601		
151	0.052	33	635	602		
152	0.051	33	635	602		
153	0.051	33	636	603		
154	0.051	33	636	603		
155	0.051	33	637	604		
156	0.051	33	637	604		
157	0.051	33	638	605		
158	0.051	33	638	605		
159	0.051	33	638	605		
160	0.052	33	639	606		
161	0.052	33	639	606		
162	0.052	33	639	606		
163	0.052	34	639	605		
164	0.052	34	639	605		
165	0.052	34	640	606		



EXPLANATION

Variable Area Wiggle Trace / Amplitude Plot

Seismic Reflection Data

Line 1

NAS Fort Worth, Texas

MW = Boring Name
(ft) = Depth to Bedrock

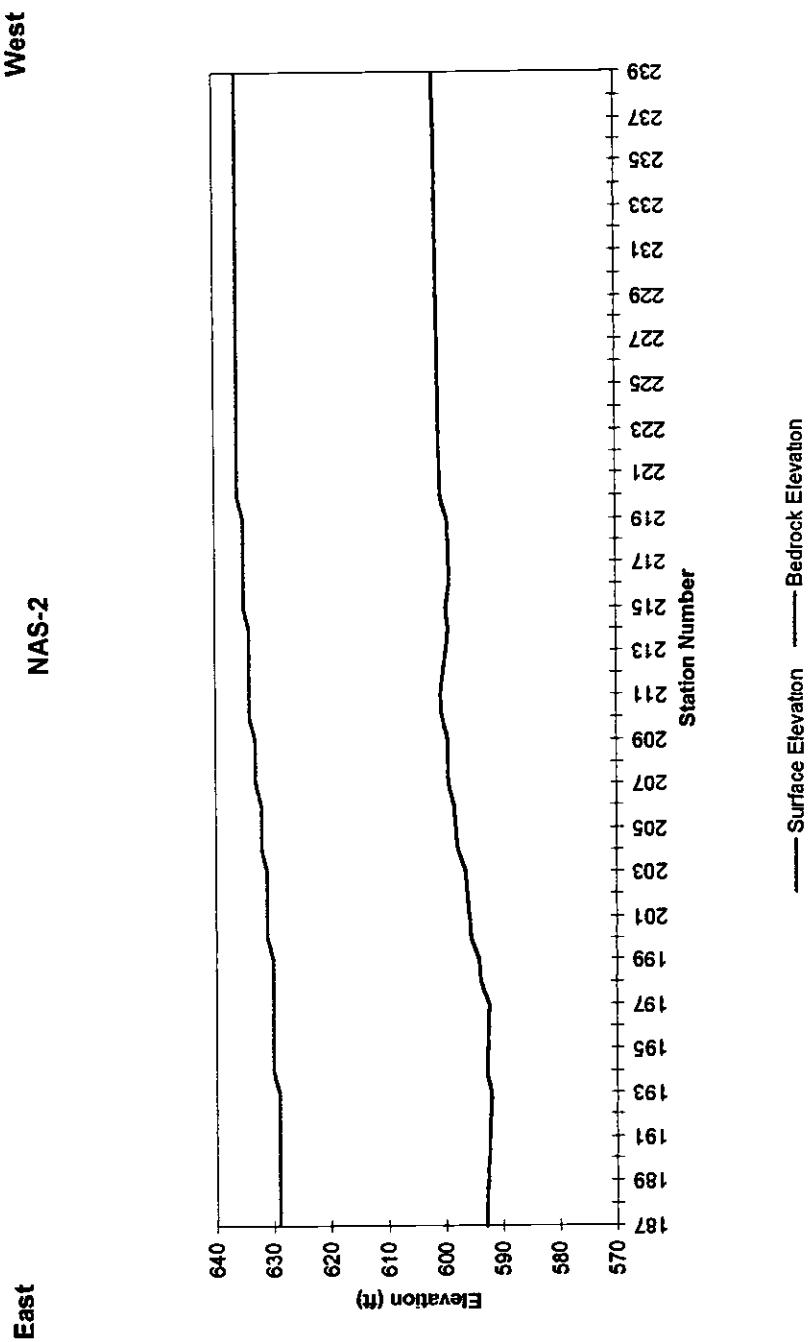
Shot Point Spacing is 30 ft.

Average Velocity for Boring Depth
is 1600 ft/sec

Time of Competent Bedrock

TAB

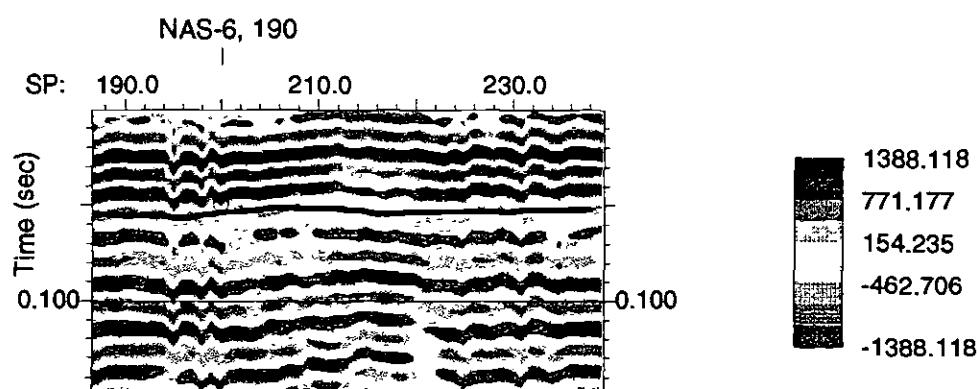
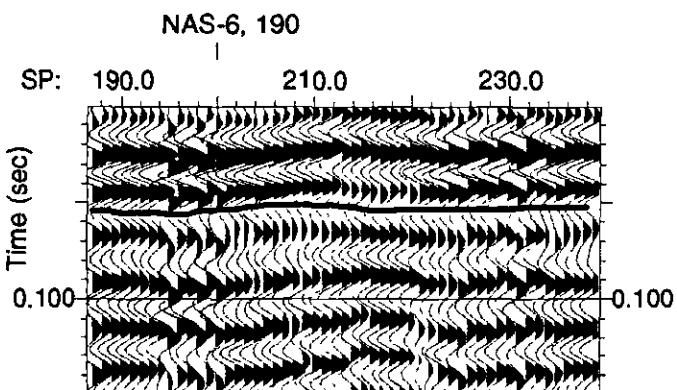
LINE 2



NAS-2							
Station Number	Time to Bedrock	Depth to Bedrock	Surface Elevation	Bedrock Elevation	Well Depth	Comments	30 ft. Station Interval
187	0 055	36	629	593		Ties NAS-4 @ Sta 186	
188	0 055	36	629	593			
189	0 055	36	629	593			
190	0 056	36	629	593			
191	0 056	37	629	592			
192	0 056	37	629	592			
193	0 056	37	629	592			
194	0 056	37	630	593			
195	0.057	37	630	593			
196	0.057	37	630	593			
197	0.057	38	630	592			
198	0 055	36	630	594		Ties NAS-6 @ Sta 180	
199	0 055	36	630	594			
200	0.054	36	631	595			
201	0.054	35	631	596			
202	0.054	35	631	596			
203	0.053	35	631	596			
204	0.053	34	632	598			
205	0.052	34	632	598			
206	0.052	34	632	598			
207	0.052	34	633	599			
208	0.052	34	633	599			
209	0.052	34	633	599			
210	0.052	34	634	600			
211	0.052	33	634	601			
212	0.052	34	634	600			
213	0.053	34	634	600			
214	0.053	35	634	599			
215	0.054	35	635	600			
216	0.055	36	635	599			
217	0.055	36	635	599			
218	0.055	36	635	599			
219	0.054	36	635	599			
220	0.054	35	636	601			
221	0.054	35	636	601			
222	0.054	35	636	601			
223	0.054	35	636	601			
224	0.054	35	636	601			
225	0.054	35	636	601			
226	0.054	35	636	601			
227	0.054	35	636	601			
228	0.054	35	636	601			
229	0.054	35	636	601			
230	0.054	35	636	601			
231	0.053	35	636	601			
232	0.053	35	636	601			
233	0.053	35	636	601			

652 24

234	0.053	35	636	601		
235	0.053	35	636	601		
236	0.053	35	636	601		
237	0.053	34	636	602		
238	0.053	34	636	602		
239	0.053	34	636	602		



EXPLANATION



MW = Boring Name
(ft) = Depth to Bedrock
Shot Point Spacing is 30 ft.
Average Velocity for Boring Depth
is 1600 ft/sec



Time of Competent Bedrock (-10 ms)

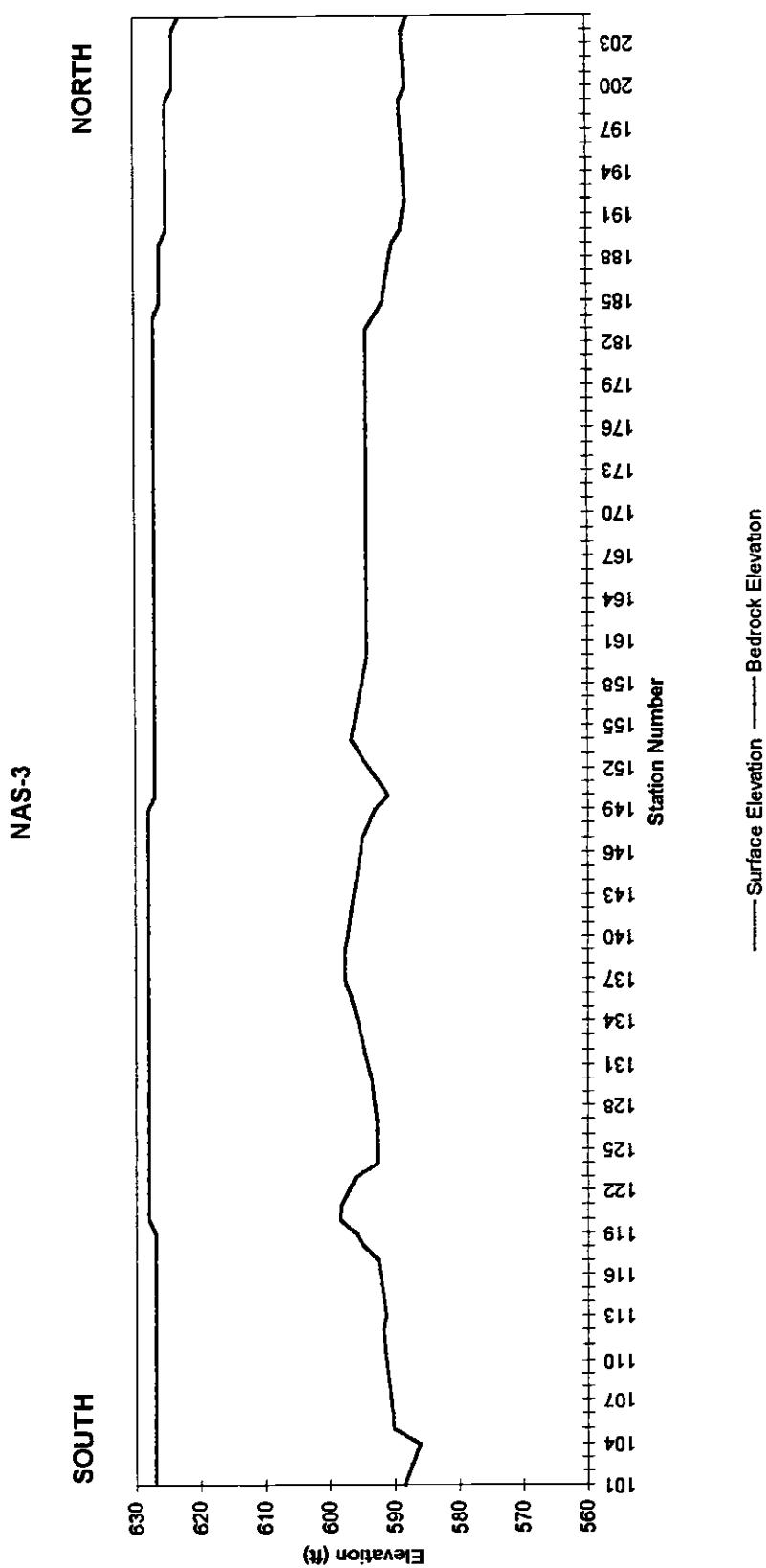
Variable Area Wiggle Trace / Amplitude Plot Seismic Reflection Data

Line 2

NAS Fort Worth, Texas

TAB

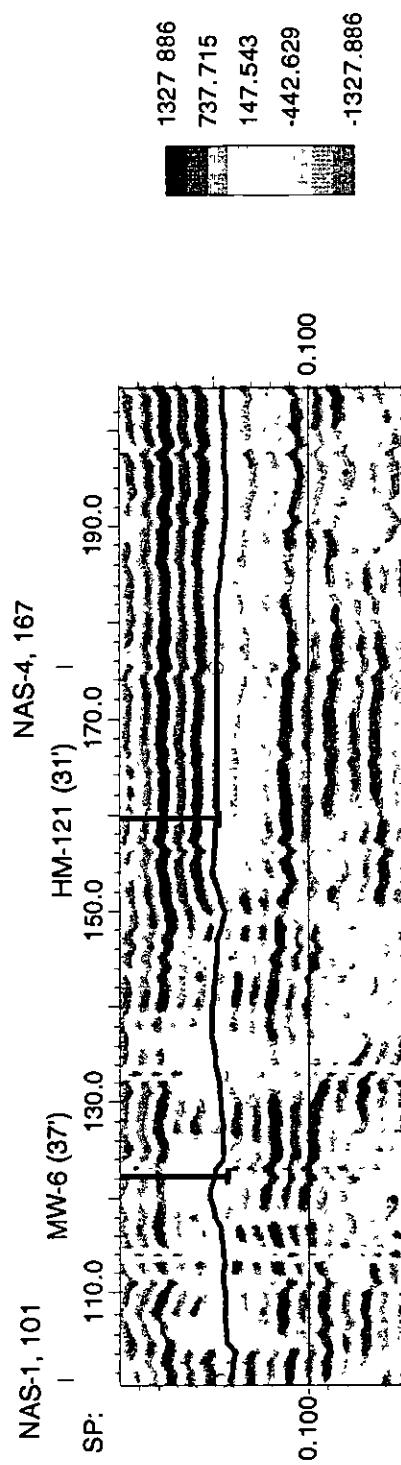
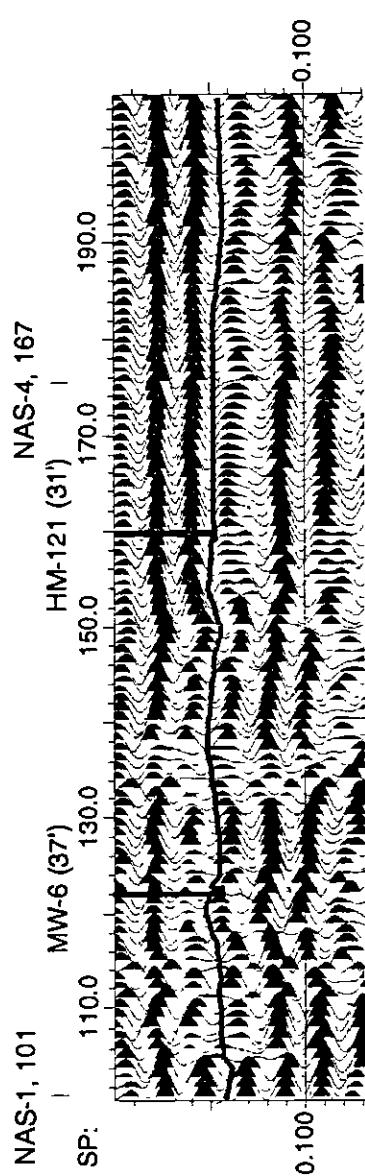
LINE 3



NAS-3						
Station Number	Time to Bedrock	Depth to Bedrock	Surface Elevation	Bedrock Elevation	Well Depth	Comments
						20 ft. Station Interval
101	0 058	38	627	589		Ties NAS-1 @ Sta 101
102	0 059	39	627	588		
103	0.060	40	627	587		
104	0.061	41	627	586		
105	0.056	37	627	590		
106	0 056	37	627	590		
107	0.055	36	627	591		
108	0.055	36	627	591		
109	0.055	36	627	591		
110	0.055	36	627	591		
111	0.054	35	627	592		
112	0.054	35	627	592		
113	0 055	36	627	591		
114	0.054	35	627	592		
115	0 054	35	627	592		
116	0 053	35	627	592		
117	0.053	34	627	593		
118	0 050	32	627	595		
119	0 049	31	627	596		
120	0 047	30	628	598		
121	0.047	30	628	598		
122	0.049	31	628	597		
123	0.050	32	628	596	37 ft	MW-6 (50 ft east)
124	0.054	35	628	593		
125	0.054	35	628	593		
126	0.054	35	628	593		
127	0.054	35	628	593		
128	0.054	35	628	593		
129	0.053	35	628	593		
130	0 053	34	628	594		
131	0 052	34	628	594		
132	0.052	33	628	595		
133	0.051	33	628	595		
134	0 050	32	628	596		
135	0 050	32	628	596		
136	0.049	31	628	597		
137	0.048	30	628	598		
138	0.048	30	628	598		
139	0.048	30	628	598		
140	0 048	31	628	597		
141	0 049	31	628	597		
142	0.049	31	628	597		
143	0.050	32	628	596		
144	0.050	32	628	596		
145	0.051	32	628	596		
146	0.051	33	628	595		
147	0.051	33	628	595		

148	0.053	34	628	594			
149	0.054	35	628	593			
150	0.055	36	627	591			
151	0.053	35	627	592			
152	0.052	33	627	594			
153	0.050	32	627	595			
154	0.048	30	627	597			
155	0.049	31	627	596			
156	0.049	31	627	596			
157	0.050	32	627	595			
158	0.050	32	627	595			
159	0.051	32	627	595			
160	0.051	33	627	594	31 ft. +	HM-121	
161	0.051	33	627	594		(Refusal @ 31 ft)	
162	0.051	33	627	594			
163	0.051	33	627	594			
164	0.051	33	627	594			
165	0.051	33	627	594			
166	0.051	33	627	594			
167	0.051	33	627	594			
168	0.051	33	627	594			
169	0.051	33	627	594			
170	0.051	33	627	594			
171	0.051	33	627	594			
172	0.051	33	627	594			
173	0.051	33	627	594			
174	0.051	33	627	594			
175	0.051	33	627	594			
176	0.051	33	627	594		Ties NAS-4 @ Sta 167	
177	0.051	33	627	594			
178	0.051	33	627	594			
179	0.051	33	627	594			
180	0.051	33	627	594			
181	0.051	33	627	594			
182	0.051	33	627	594			
183	0.051	33	627	594			
184	0.052	34	627	593			
185	0.053	34	626	592			
186	0.053	35	626	591			
187	0.054	35	626	591			
188	0.054	35	626	591			
189	0.055	36	626	590			
190	0.055	36	625	589			
191	0.056	36	625	589			
192	0.056	37	625	588			
193	0.056	37	625	588			
194	0.056	37	625	588			
195	0.056	36	625	589			
196	0.055	36	625	589			
197	0.055	36	625	589			

198	0 055	36	625	589		
199	0 055	36	625	589		
200	0.055	36	624	588		
201	0.055	36	624	588		
202	0.054	36	624	588		
203	0.054	35	624	589		
204	0.054	35	624	589		
205	0 054	35	623	588		



EXPLANATION

MW = Boring Name
 (ft) = Depth to Bedrock
 Shot Point Spacing is 20 ft.
 Average Velocity for Boring Depth
 is 1600 ft/sec
 Time of Competent Bedrock (-10ms)

Variable Area Wiggle Trace / Amplitude Plot

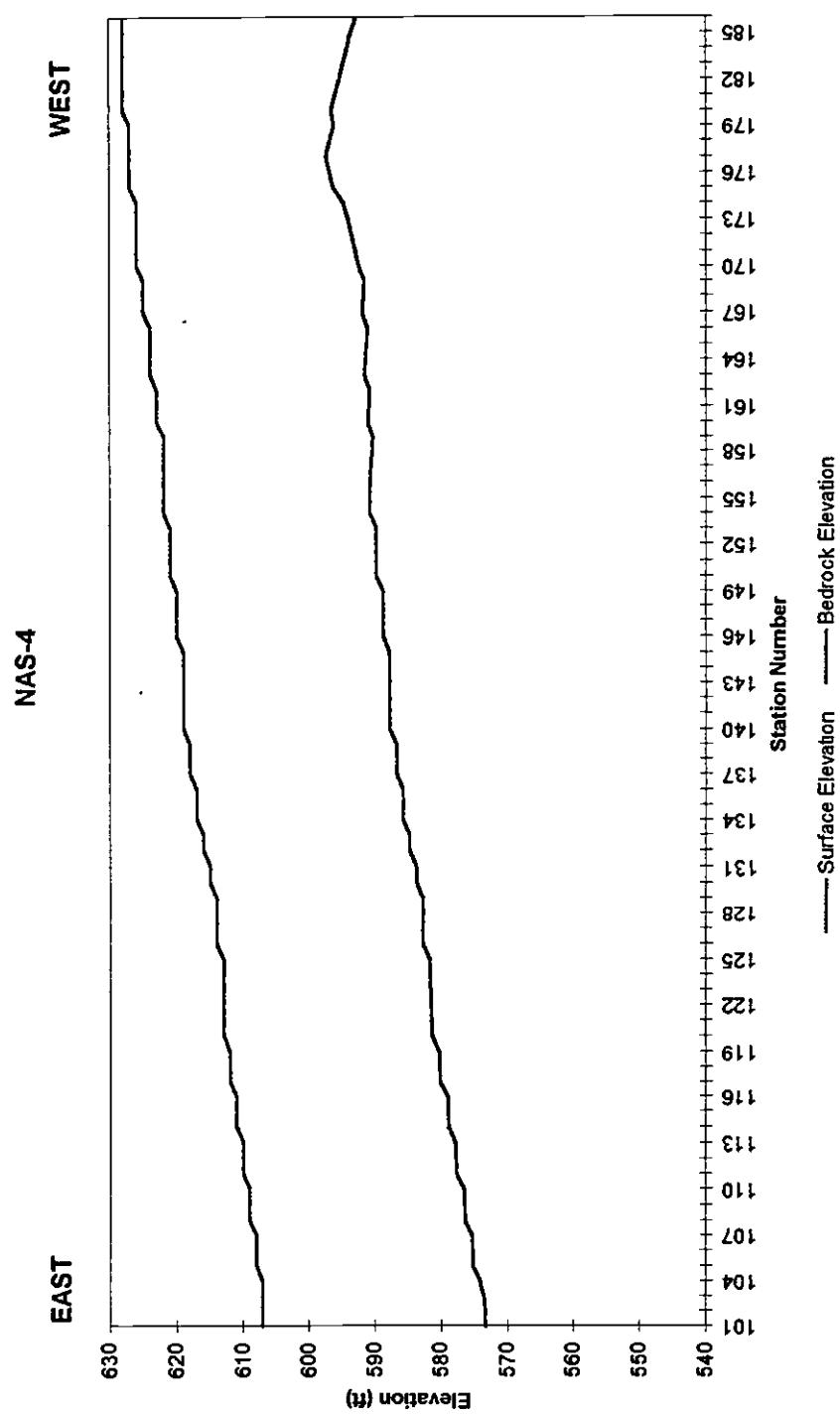
Seismic Reflection Data

Line 3

NAS Fort Worth, Texas

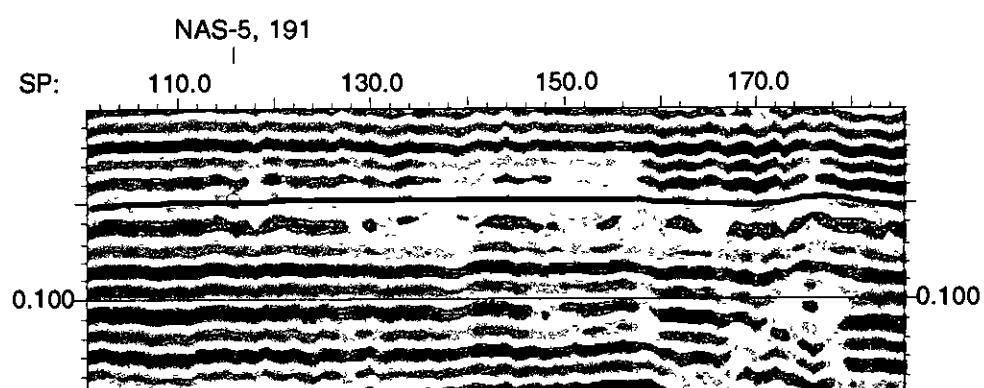
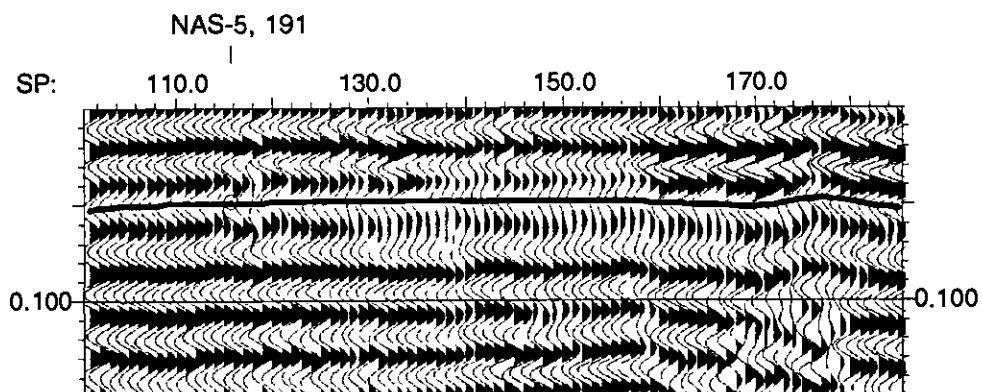
TAB

LINE 4



NAS-4							
Station Number	Time to Bedrock	Depth to Bedrock	Surface Elevation	Bedrock Elevation	Well Depth	Comments	
						30 ft. Station Interval	
101	0.052	34	607	573	19 ft.	MW-12 (75 ft. East)	
102	0.052	34	607	573			
103	0.052	33	607	574			
104	0.051	33	607	574			
105	0.051	33	608	575			
106	0.051	33	608	575			
107	0.051	33	608	575			
108	0.051	32	609	577			
109	0.051	32	609	577			
110	0.050	32	609	577			
111	0.050	32	610	578			
112	0.050	32	610	578			
113	0.050	32	610	578			
114	0.050	32	611	579			
115	0.050	32	611	579			
116	0.050	32	611	579		Ties NAS-5 @ Sta 190	
117	0.050	32	612	580			
118	0.050	32	612	580			
119	0.050	32	612	580			
120	0.049	32	613	581			
121	0.049	31	613	582			
122	0.049	31	613	582			
123	0.049	31	613	582			
124	0.049	31	613	582			
125	0.049	31	613	582			
126	0.049	31	614	583			
127	0.049	31	614	583			
128	0.049	31	614	583			
129	0.049	31	614	583			
130	0.049	31	615	584			
131	0.049	31	615	584			
132	0.049	31	616	585			
133	0.049	31	616	585			
134	0.049	31	617	586			
135	0.049	31	617	586			
136	0.049	31	617	586			
137	0.049	31	618	587			
138	0.049	31	618	587			
139	0.049	31	618	587			
140	0.049	31	619	588			
141	0.049	31	619	588			
142	0.049	31	619	588			
143	0.049	31	619	588			
144	0.049	31	619	588			
145	0.049	31	619	588			
146	0.049	31	620	589			
147	0.049	31	620	589			

148	0 049	31	620	589		
149	0 049	31	620	589		
150	0 049	31	621	590		
151	0 049	31	621	590		
152	0 049	31	621	590		
153	0.049	31	621	590		
154	0.049	31	622	591		
155	0.049	31	622	591	25 ft.	MW-8 (175 ft North)
156	0 049	31	622	591		
157	0.049	31	622	591		
158	0.049	32	622	590		
159	0 050	32	622	590		
160	0 050	32	623	591		
161	0.050	32	623	591		
162	0.050	32	623	591		
163	0.051	32	624	592		
164	0.051	33	624	591		
165	0 051	33	624	591		
166	0 051	33	624	591		Ties NAS-3 @ Sta 175
167	0 051	33	625	592		
168	0.052	33	625	592		
169	0.052	33	625	592		
170	0 052	34	626	592		
171	0.051	33	626	593		
172	0.051	32	626	594		
173	0.050	32	626	594		
174	0.049	31	626	595		
175	0.048	31	627	596		
176	0 048	30	627	597		
177	0 047	30	627	597		
178	0.048	30	627	597		
179	0.049	31	627	596		
180	0 049	31	628	597		
181	0 050	32	628	596		
182	0 051	33	628	595		
183	0.052	33	628	595		
184	0.052	34	628	594		
185	0.053	34	628	594		
186	0 054	35	628	593		Ties NAS-2 @ Sta 101



EXPLANATION



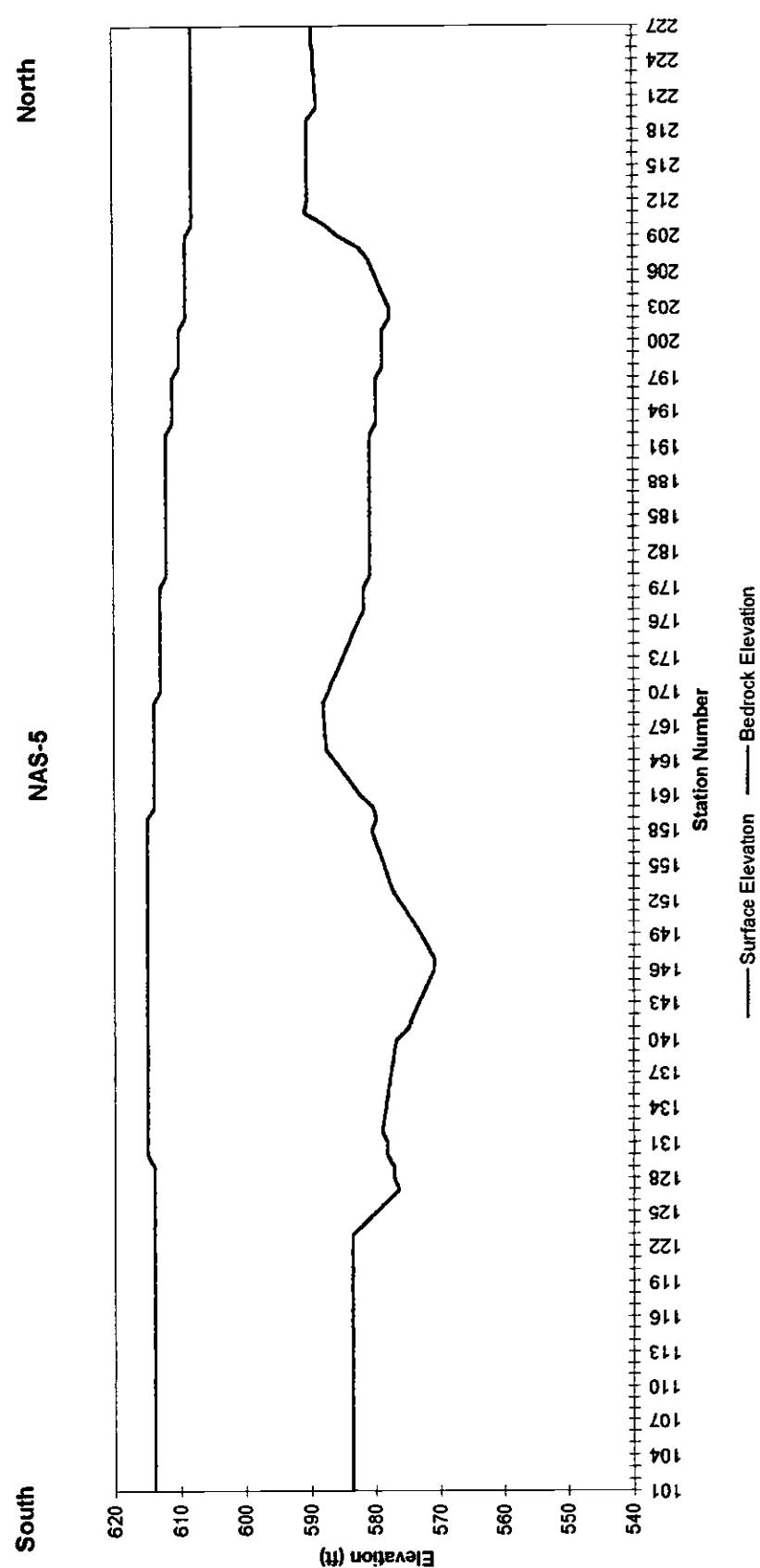
MW = Boring Name
(ft) = Depth to Bedrock
Shot Point Spacing is 30 ft.
Average Velocity for Boring Depth
is 1600 ft/sec
Time of Competent Bedrock

Variable Area Wiggle Trace / Amplitude Plot Seismic Reflection Data

Line 4
NAS Fort Worth, Texas

TAB

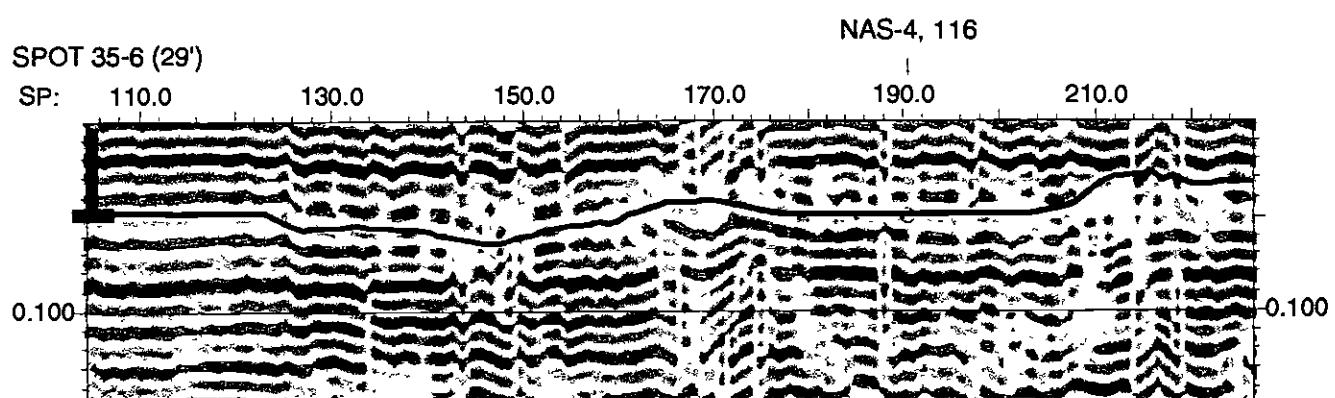
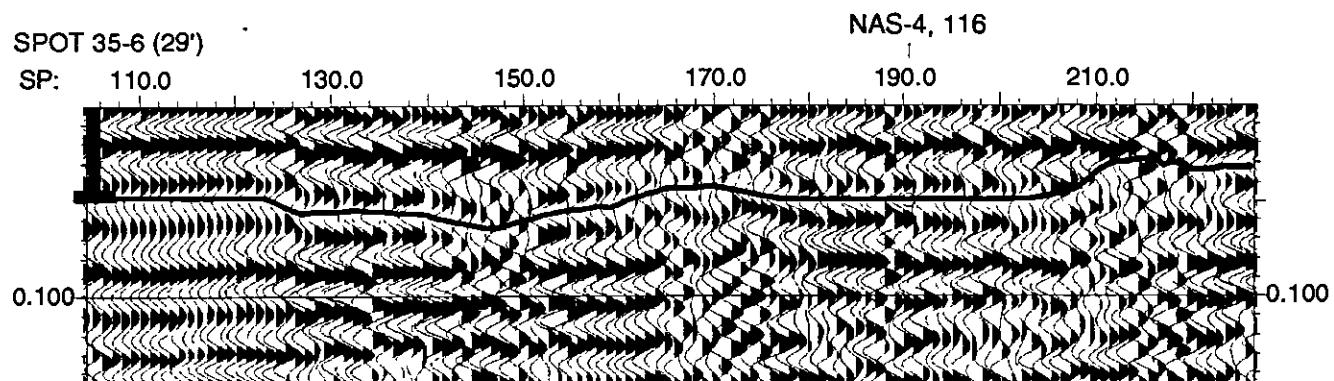
LINE 5



NAS-5							
Station Number	Time to Bedrock	Depth to Bedrock	Surface Elevation	Bedrock Elevation	Well Depth	Comments	20 ft. Station Interval
101	0.048	30	614	584	29 ft	Spot 35-6	
102	0.048	30	614	584			
103	0.048	30	614	584			
104	0.048	30	614	584			
105	0.048	30	614	584			
106	0.048	30	614	584			
107	0.048	30	614	584			
108	0.048	30	614	584			
109	0.048	30	614	584			
110	0.048	30	614	584			
111	0.048	30	614	584			
112	0.048	30	614	584			
113	0.048	30	614	584			
114	0.048	30	614	584			
115	0.048	30	614	584			
116	0.048	30	614	584			
117	0.048	30	614	584			
118	0.048	30	614	584			
119	0.048	30	614	584			
120	0.048	30	614	584			
121	0.048	30	614	584			
122	0.048	30	614	584			
123	0.048	30	614	584			
124	0.050	32	614	582			
125	0.053	34	614	580			
126	0.055	36	614	578			
127	0.057	38	614	576			
128	0.056	37	614	577			
129	0.056	37	614	577			
130	0.056	37	615	578			
131	0.056	37	615	578			
132	0.055	36	615	579			
133	0.055	36	615	579			
134	0.056	37	615	578			
135	0.056	37	615	578			
136	0.056	37	615	578			
137	0.057	37	615	578			
138	0.057	38	615	577			
139	0.057	38	615	577			
140	0.058	38	615	577			
141	0.060	40	615	575			
142	0.061	41	615	574			
143	0.062	42	615	573			
144	0.063	42	615	573			
145	0.064	43	615	572			
146	0.065	44	615	571			
147	0.065	44	615	571			

148	0.064	43	615	572		
149	0.062	42	615	573		
150	0.061	41	615	574		
151	0.060	40	615	575		
152	0.058	39	615	576		
153	0.057	38	615	577		
154	0.056	37	615	578		
155	0.055	36	615	579		
156	0.055	36	615	579		
157	0.054	35	615	580		
158	0.053	34	615	581		
159	0.054	35	615	580		
160	0.052	34	614	580		
161	0.049	32	614	582		
162	0.048	30	614	584		
163	0.046	29	614	585		
164	0.045	28	614	586		
165	0.043	26	614	588		
166	0.043	26	614	588		
167	0.043	26	614	588		
168	0.043	26	614	588		
169	0.042	26	614	588		
170	0.042	26	613	587		
171	0.043	26	613	587		
172	0.044	27	613	586		
173	0.045	28	613	585		
174	0.046	29	613	584		
175	0.047	30	613	583		
176	0.048	30	613	583		
177	0.049	31	613	582		
178	0.049	31	613	582		
179	0.049	31	613	582		
180	0.049	31	612	581		
181	0.049	31	612	581		
182	0.049	31	612	581		
183	0.049	31	612	581		
184	0.049	31	612	581		
185	0.049	31	612	581		
186	0.049	31	612	581		
187	0.049	31	612	581		
188	0.049	31	612	581		
189	0.049	31	612	581		
190	0.049	31	612	581	Ties NAS-4 @ Sta 116	
191	0.049	31	612	581		
192	0.049	31	612	581		
193	0.049	31	611	580		
194	0.049	31	611	580		
195	0.049	31	611	580		
196	0.049	31	611	580		
197	0.049	31	611	580		

198	0 049	31	610	579		
199	0.049	31	610	579		
200	0.049	31	610	579		
201	0.049	31	610	579		
202	0 049	31	609	578		
203	0.049	31	609	578		
204	0.048	30	609	579		
205	0.047	30	609	579		
206	0 046	29	609	580		
207	0.045	28	609	581		
208	0.043	26	609	583		
209	0.039	23	609	586		
210	0.035	20	608	588		
211	0 032	17	608	591		
212	0.032	18	608	590		
213	0.032	18	608	590		
214	0.032	18	608	590		
215	0 032	18	608	590		
216	0 032	18	608	590		
217	0 032	18	608	590		
218	0.032	18	608	590		
219	0.032	18	608	590		
220	0.034	19	608	589		
221	0 034	19	608	589		
222	0 034	19	608	589		
223	0 033	19	608	589		
224	0.033	19	608	589		
225	0.033	19	608	589		
226	0 033	18	608	590		
227	0.033	18	608	590		



EXPLANATION



MW = Boring Name
(ft) = Depth to Bedrock
Shot Point Spacing is 20 ft.
Average Velocity for Boring Depth
is 1600 ft/sec
— Time of Competent Bedrock

Variable Area Wiggle Trace / Amplitude Plot

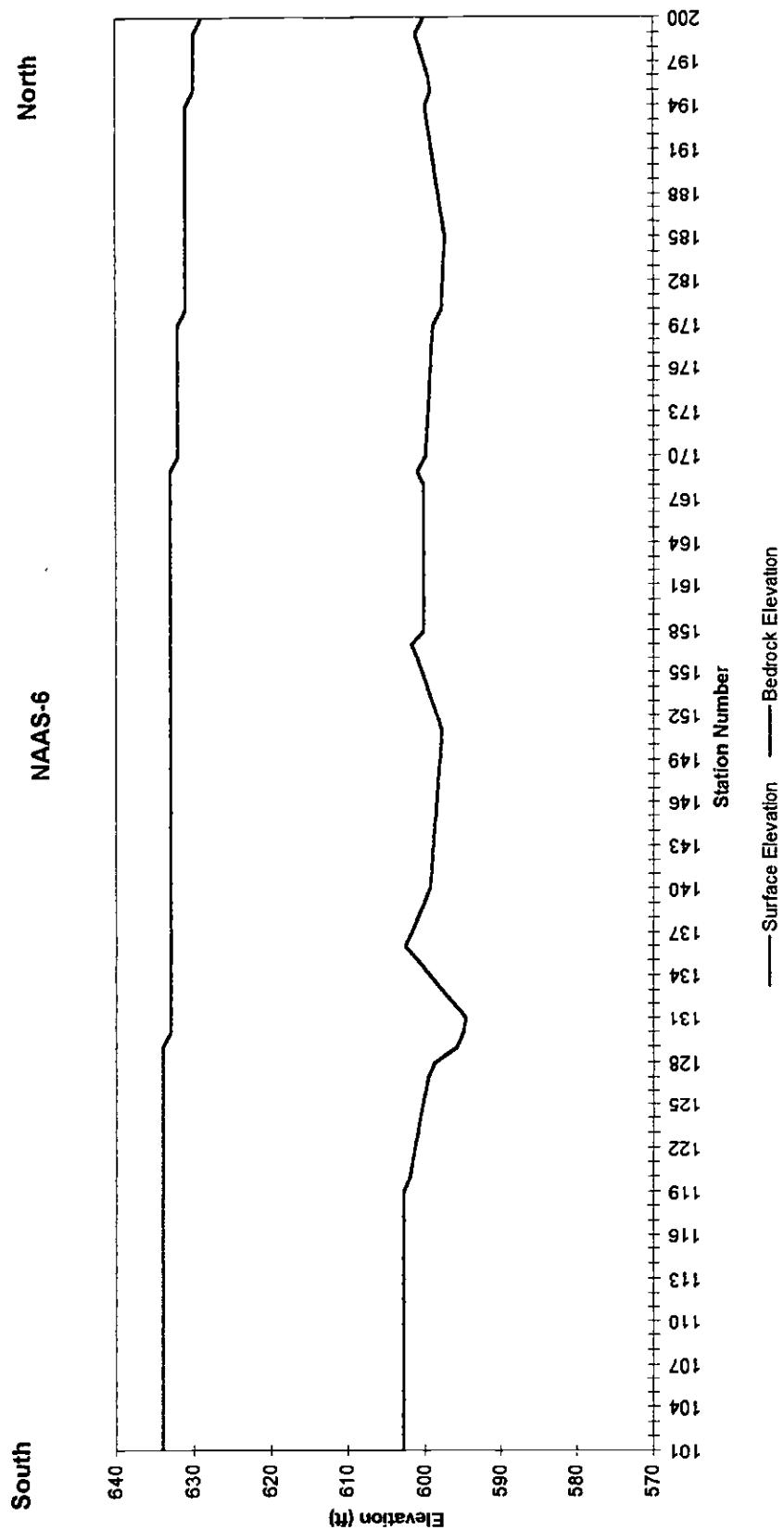
Seismic Reflection Data

Line 5

NAS Fort Worth, Texas

TAB

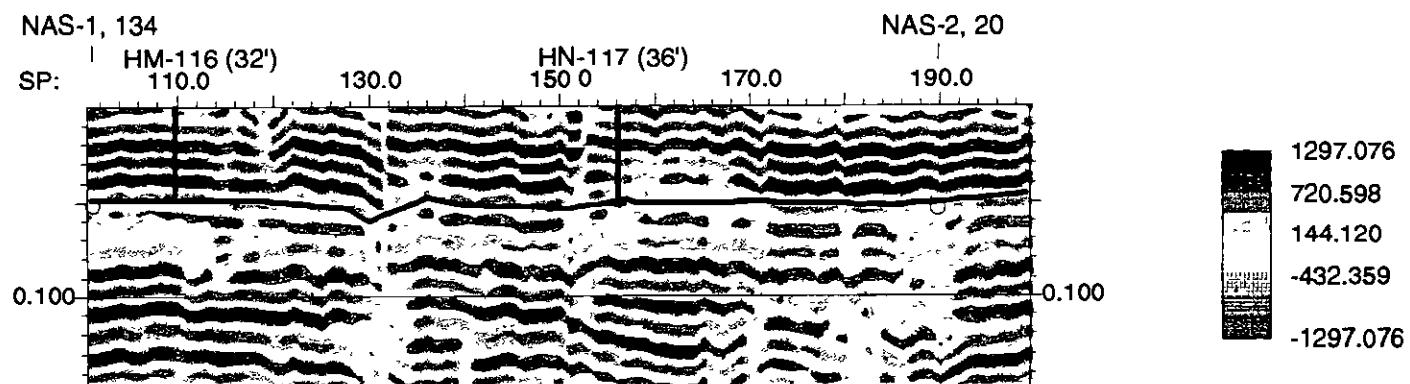
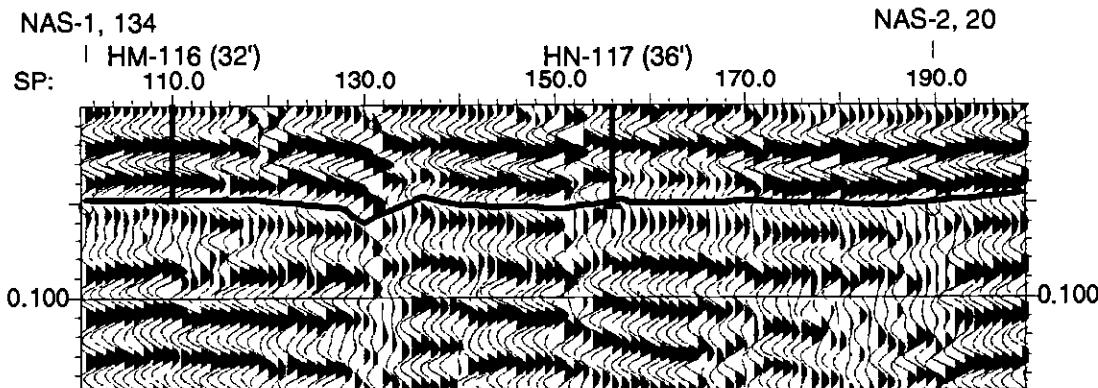
LINE 6



NAS-6							
Station Number	Time to Bedrock	Depth to Bedrock	Surface Elevation	Bedrock Elevation	Well Depth	Comments	
						20 ft. Station Interval	
101	0.049	31	634	603		Ties NAS-1 @ Sta 136	
102	0.049	31	634	603			
103	0.049	31	634	603			
104	0.049	31	634	603			
105	0.049	31	634	603			
106	0.049	31	634	603			
107	0.049	31	634	603			
108	0.049	31	634	603			
109	0.049	31	634	603			
110	0.049	31	634	603			
111	0.049	31	634	603	33 ft	HM-116	
112	0.049	31	634	603			
113	0.049	31	634	603			
114	0.049	31	634	603			
115	0.049	31	634	603			
116	0.049	31	634	603			
117	0.049	31	634	603			
118	0.049	31	634	603			
119	0.049	31	634	603			
120	0.050	32	634	602			
121	0.050	32	634	602			
122	0.051	33	634	601			
123	0.051	33	634	601			
124	0.052	33	634	601			
125	0.052	34	634	600			
126	0.053	34	634	600			
127	0.053	34	634	600			
128	0.054	35	634	599			
129	0.058	38	634	596			
130	0.062	38	633	595			
131	0.058	38	633	595			
132	0.056	37	633	596			
133	0.054	35	633	598			
134	0.052	34	633	599			
135	0.050	32	633	601			
136	0.048	30	633	603			
137	0.049	31	633	602			
138	0.050	32	633	601			
139	0.051	33	633	600			
140	0.052	34	633	599			
141	0.052	34	633	599			
142	0.052	34	633	599			
143	0.053	34	633	599			
144	0.053	34	633	599			
145	0.053	34	633	599			
146	0.053	34	633	599			
147	0.053	35	633	598			

148	0.053	35	633	598		
149	0.054	35	633	598		
150	0.054	35	633	598		
151	0.054	35	633	598		
152	0.053	35	633	598		
153	0.052	34	633	599		
154	0.052	33	633	600		
155	0.051	33	633	600		
156	0.050	32	633	601	36 ft	HM-117
157	0.049	31	633	602		
158	0.051	33	633	600		
159	0.051	33	633	600		
160	0.051	33	633	600		
161	0.051	33	633	600		
162	0.051	33	633	600		
163	0.051	33	633	600		
164	0.051	33	633	600		
165	0.051	33	633	600		
166	0.051	33	633	600		
167	0.051	33	633	600		
168	0.051	33	633	600		
169	0.050	32	633	601		
170	0.050	32	632	600		
171	0.050	32	632	600		
172	0.050	32	632	600		
173	0.051	32	632	600		
174	0.051	33	632	599		
175	0.051	33	632	599		
176	0.051	33	632	599		
177	0.051	33	632	599		
178	0.051	33	632	599		
179	0.051	33	632	599		
180	0.051	33	631	598		Ties NAS-2 @ Sta 112
181	0.052	33	631	598		
182	0.052	33	631	598		
183	0.052	33	631	598		
184	0.052	34	631	597		
185	0.052	34	631	597		
186	0.052	33	631	598		
187	0.051	33	631	598		
188	0.051	33	631	598		
189	0.051	32	631	599		
190	0.050	32	631	599		
191	0.050	32	631	599		
192	0.049	32	631	599		
193	0.049	31	631	600		
194	0.049	31	631	600		
195	0.048	31	630	599		
196	0.048	30	630	600		
197	0.047	30	630	600		

198	0 047	29	630	601		
199	0 046	29	630	601		
200	0.046	29	629	600		



EXPLANATION



MW = Boring Name
(ft) = Depth to Bedrock
Shot Point Spacing is 20 ft.
Average Velocity for Boring Depth
is 1600 ft/sec
Time of Competent Bedrock (-10 ms)

Variable Area Wiggle Trace / Amplitude Plot
Seismic Reflection Data
Line 6

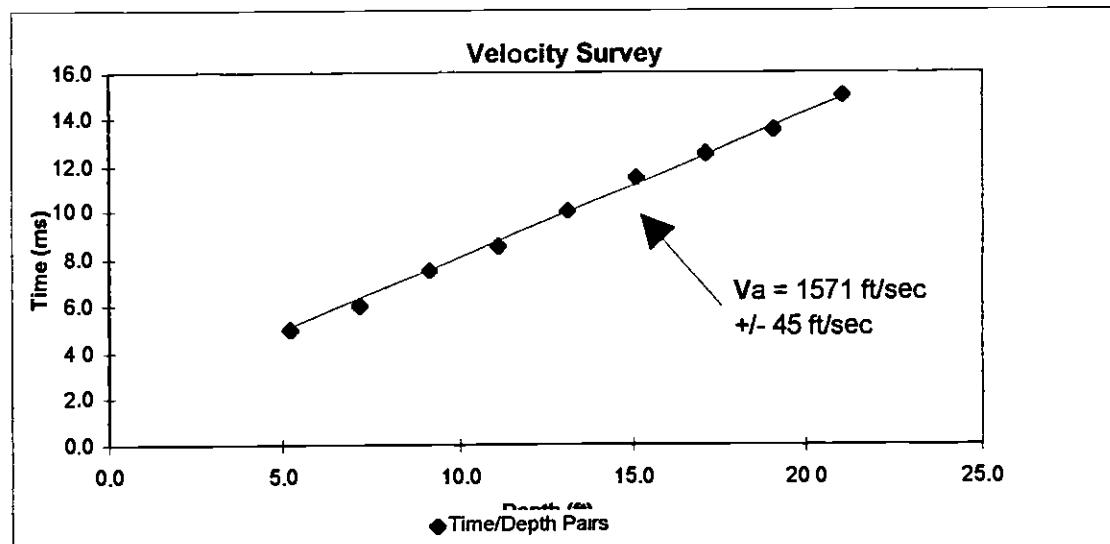
NAS Fort Worth, Texas

Appendix A

Check Shot Velocity Survey

35-04
Survey Depth: 21 feet

Hamm er offset (ft)	Tool Depth (ft)	Offset Correcti on (ft)	First Arrival Time (ms)	v _{avg}	Regression (5 to 21 ft)
1.5	21	21.1	15.0	1404	
1.5	19	19.1	13.5	1412	
1.5	17	17.1	12.5	1365	
1.5	15	15.1	11.5	1311	
1.5	13	13.1	10.0	1309	Slope X 1000 1571
1.5	11	11.1	8.5	1306	R Squared 1.00
1.5	9	9.1	7.5	1217	STD Error 45
1.5	7	7.2	6.0	1193	
1.5	5	5.2	5.0	1044	

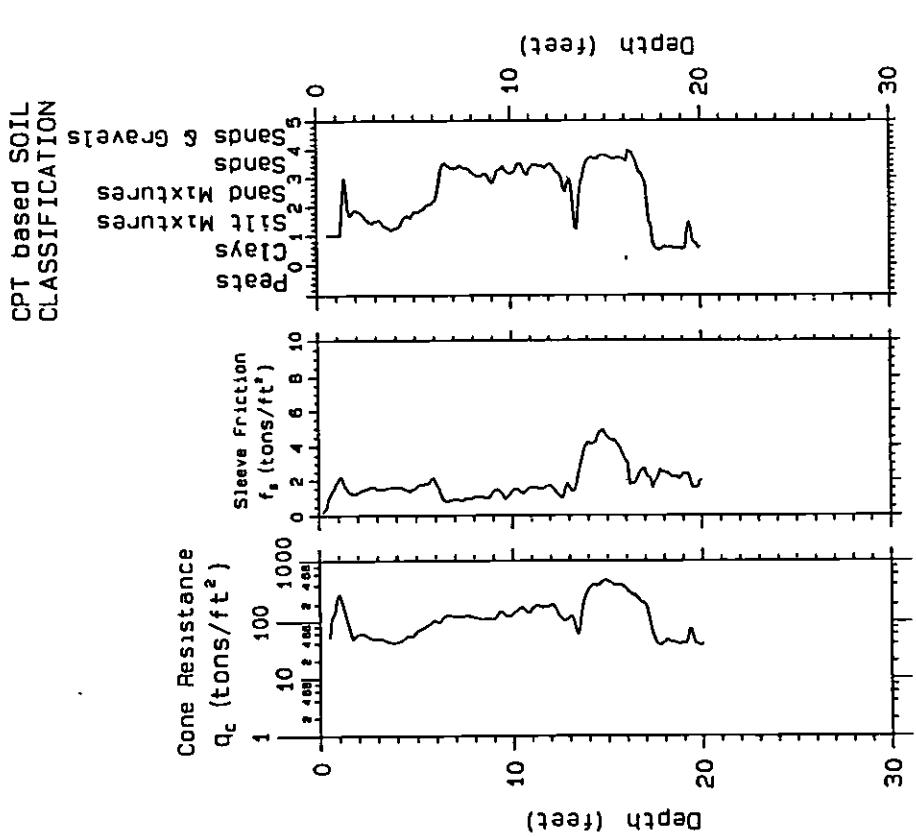


**VELOCITY SURVEY AND
STATISTICAL ANALYSIS
NAS FORT WORTH, TEXAS**

TAB

APPENDIX B

DIRECT PUSH INVESTIGATION DATA



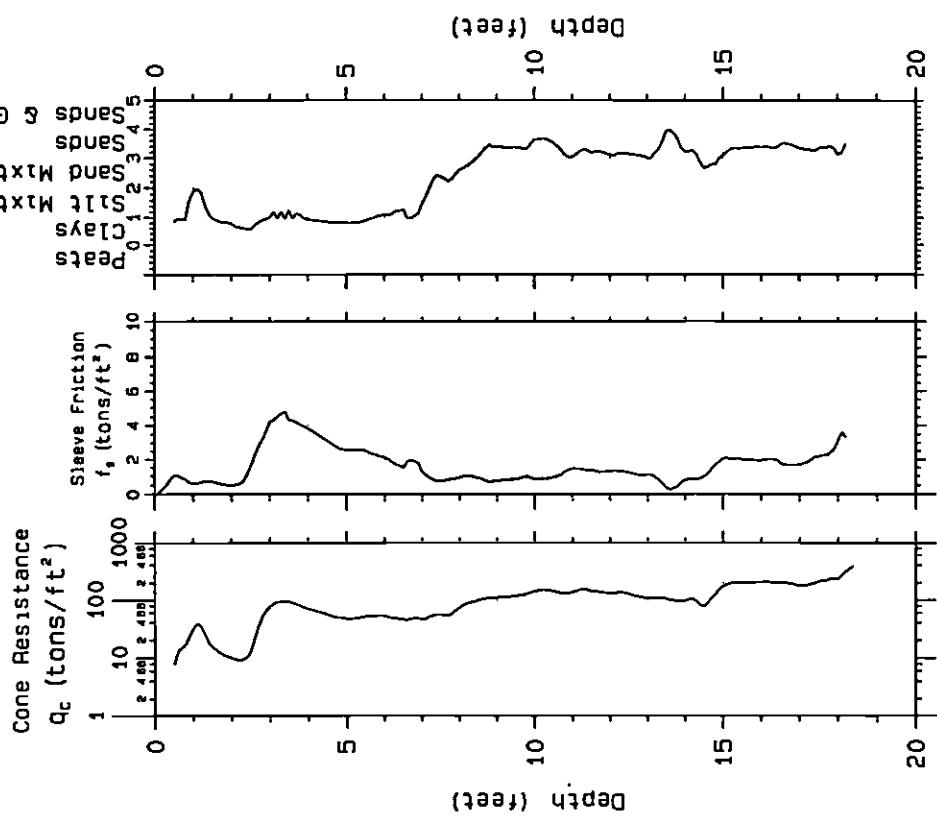
MRK
SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

Project: CPT; 19A1CARS
Probe Depth: 20.21
Pre-Push Depth: 0
Site Characterization and Analysis Penetrometer System

CPT based SOIL
CLASSIFICATION



Probing date: 10-30-1997

U.S.Army
Engineer
District
Kansas City
Geotechnical Branch

Site Characterization
and Analysis System

Project;
Probe Depth: 18.53
Pre-Push Depth: 0
CPT; 18A2CARS

CH2M HILL Designation: PC HTA0A2

MRK
SCAPS

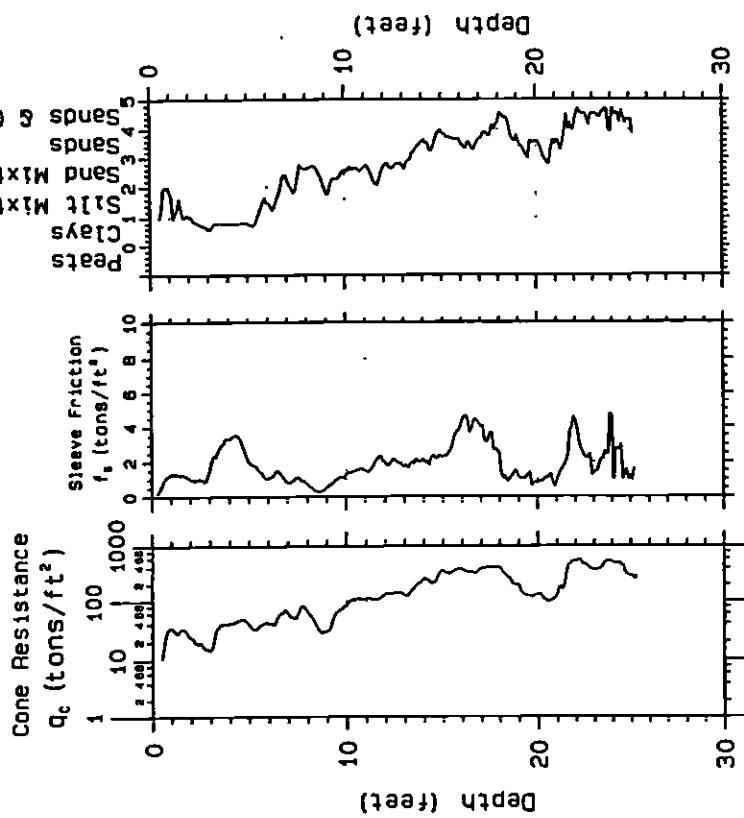
Project: 25.50
Probe Depth: 0
Pre-Push Depth: 0
CPT; 16A3CARS

Site Characterization
and Analysis
Penetrometer System

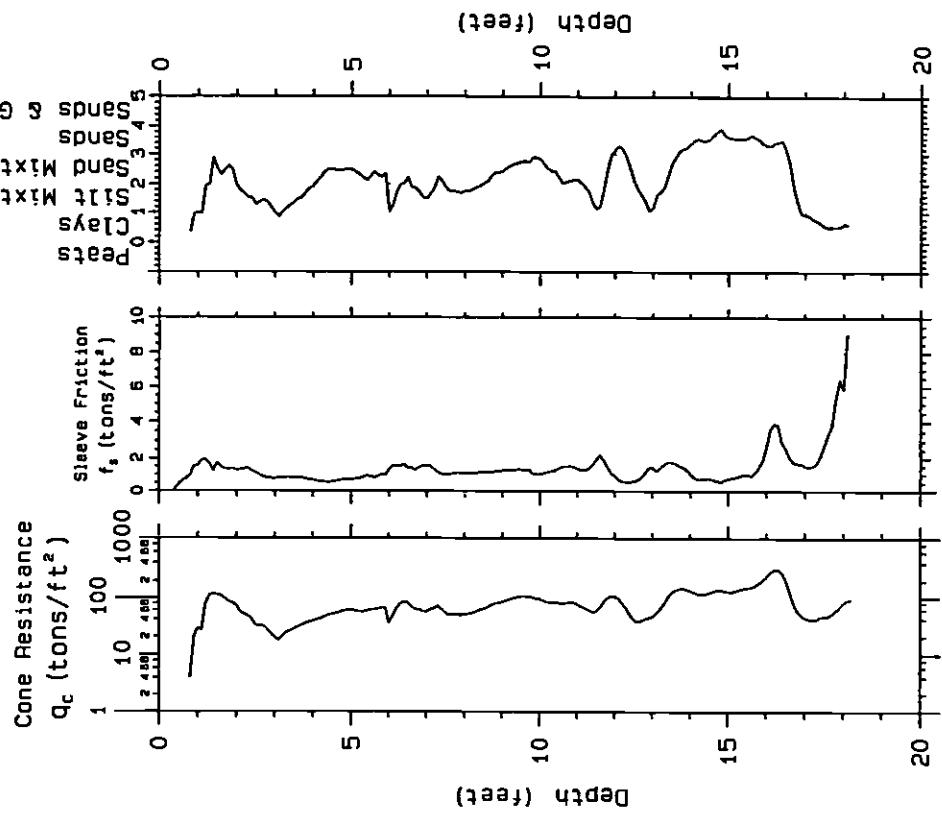
U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

**CPT based SOIL
CLASSIFICATION**



CPT based SOIL
CLASSIFICATION



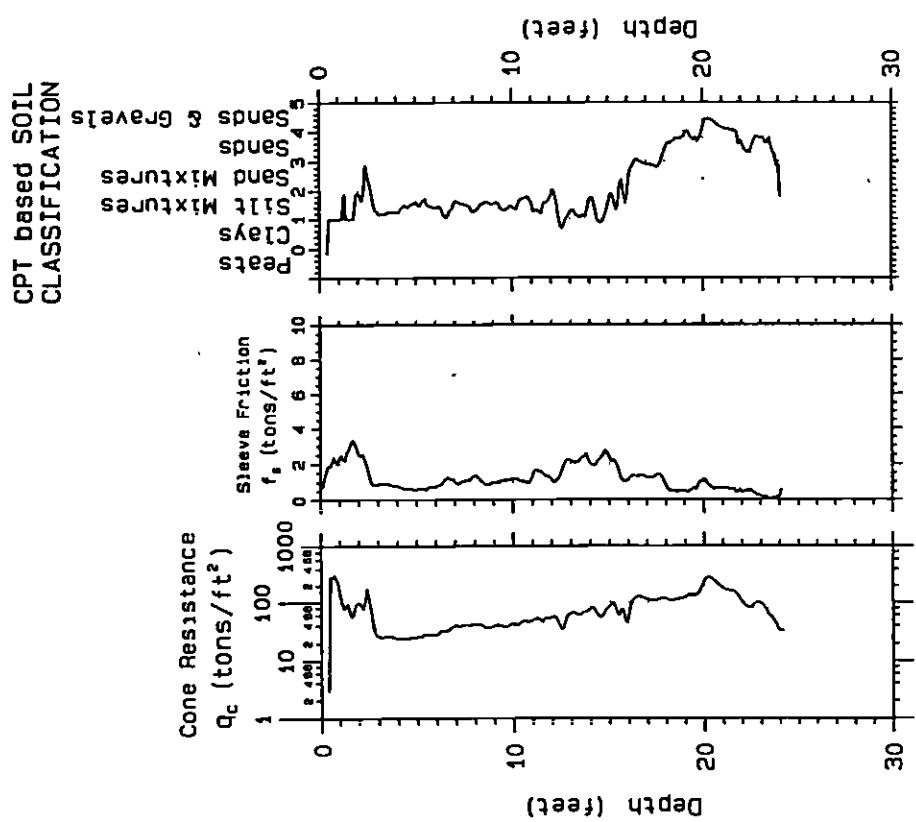
MRK
SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

Project:
Probe Depth: 18.40
Pre-Push Depth: 0
CPT; 22A4CARS

Site Characterization
and Analysis
Penetrometer System



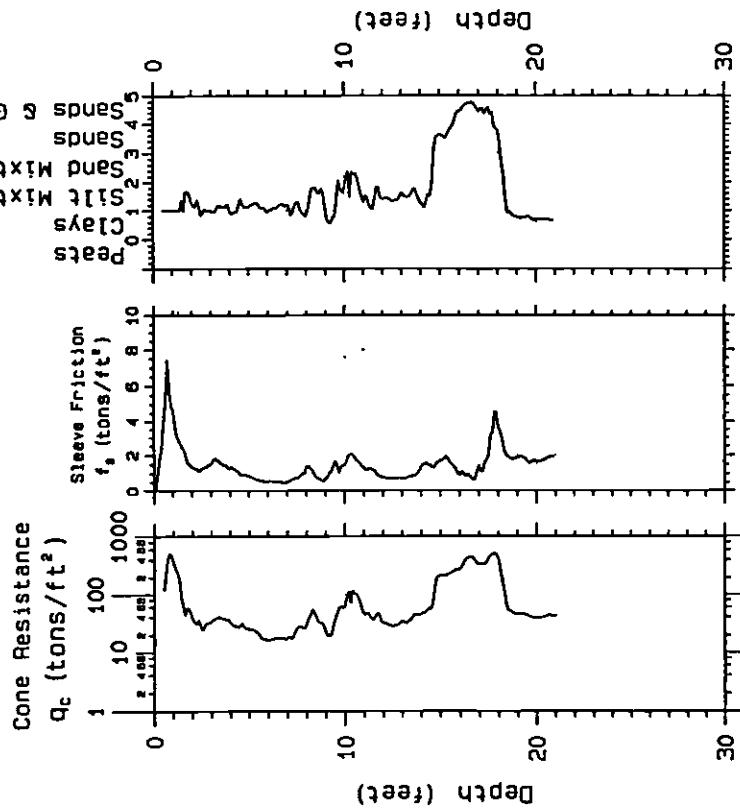
MIRK SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

Project: 24.37
Probe Depth: 24.37
Pre-Push Depth: 0
CPT; 15B1CARS

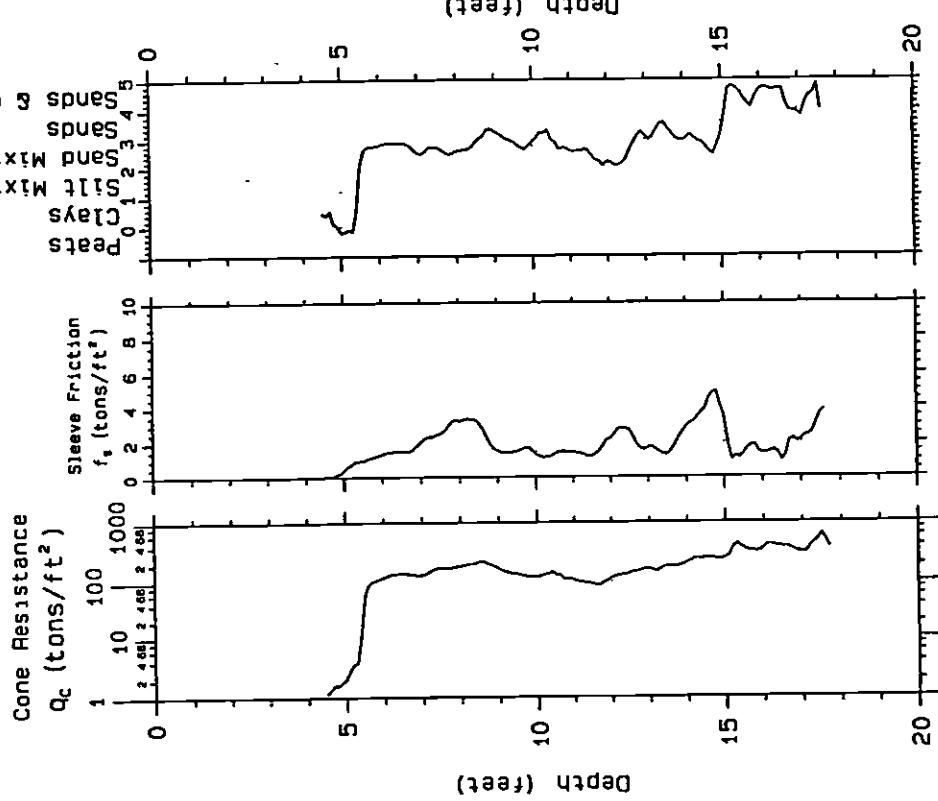
Site Characterization
and Analysis
Penetrometer System

CPT based SOIL
CLASSIFICATION

Probing date: 10-30-1997

U.S. Army
Engineer
District
Kansas City
Geotechnical BranchSite
Characterization
and Analysis
Penetrometer System**MRK
SCAPS**Project:
Probe Depth: 21.22
Pre-Push Depth: 0
CPT; 14B2CARS

CPT based SOIL
CLASSIFICATION



MIRK
SCAPS

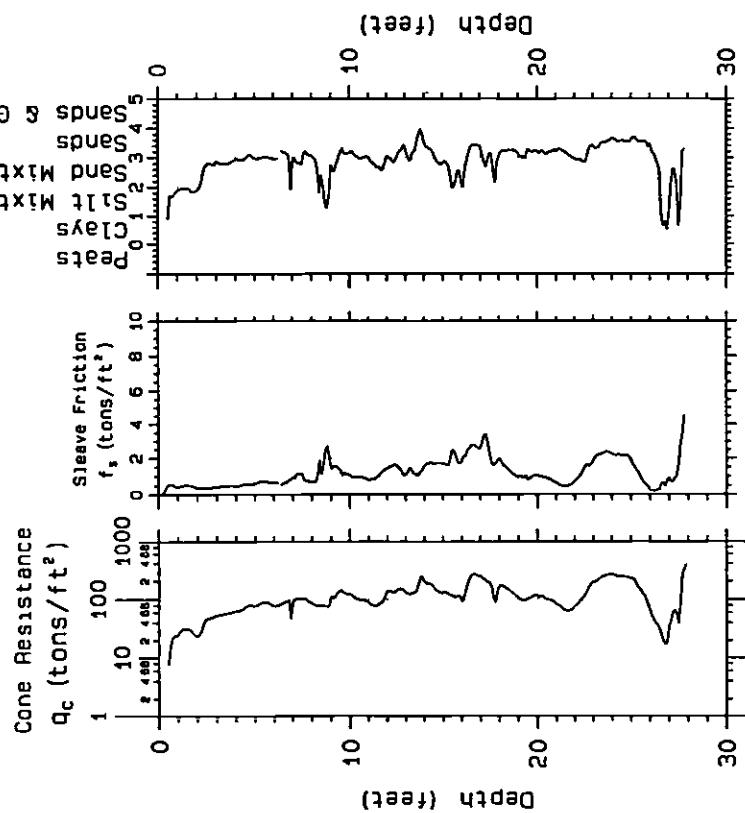
U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 11-03-1997

Site
Characterization
and Analysis
Penetrometer System

Project:
Probe Depth: 17.86
Pre-Push Depth: 0
CPT; 28B3CARS

CH2M HILL Designation: PCHMMHTA0B3

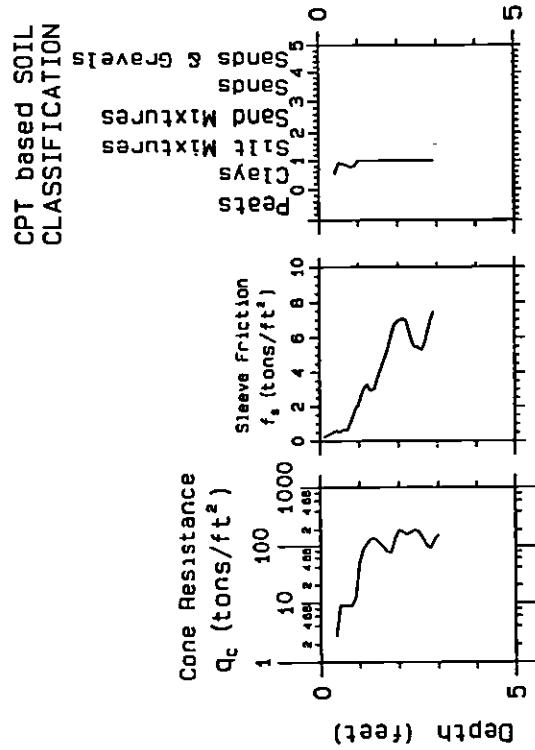
CPT based SOIL
CLASSIFICATION

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch
Probing date, 10-30-1997

MRK
SCAPS

Site
Characterization
and Analysis
Penetrometer System

Project:
Probe Depth: 28.09
Pre-Push Depth: 0
CPT; 23B4CARS

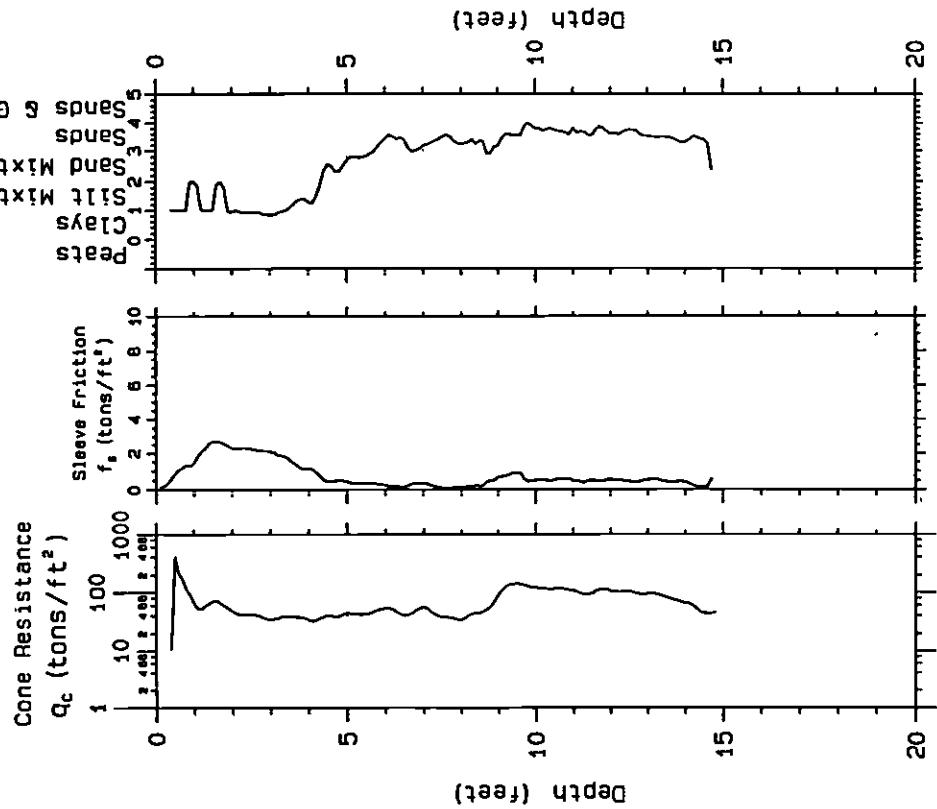


MIRK SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

Project: CPT; 24B5CARS
 Probe Depth: 3.203
 Pre-Push Depth: 0
 Site Characterization
 and Analysis
 Penetrometer System

CPT based SOIL
CLASSIFICATION

MIRK
SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

Project:
Probe Depth: 15.01
Pre-Push Depth: 0
CPT; 12C1CARS

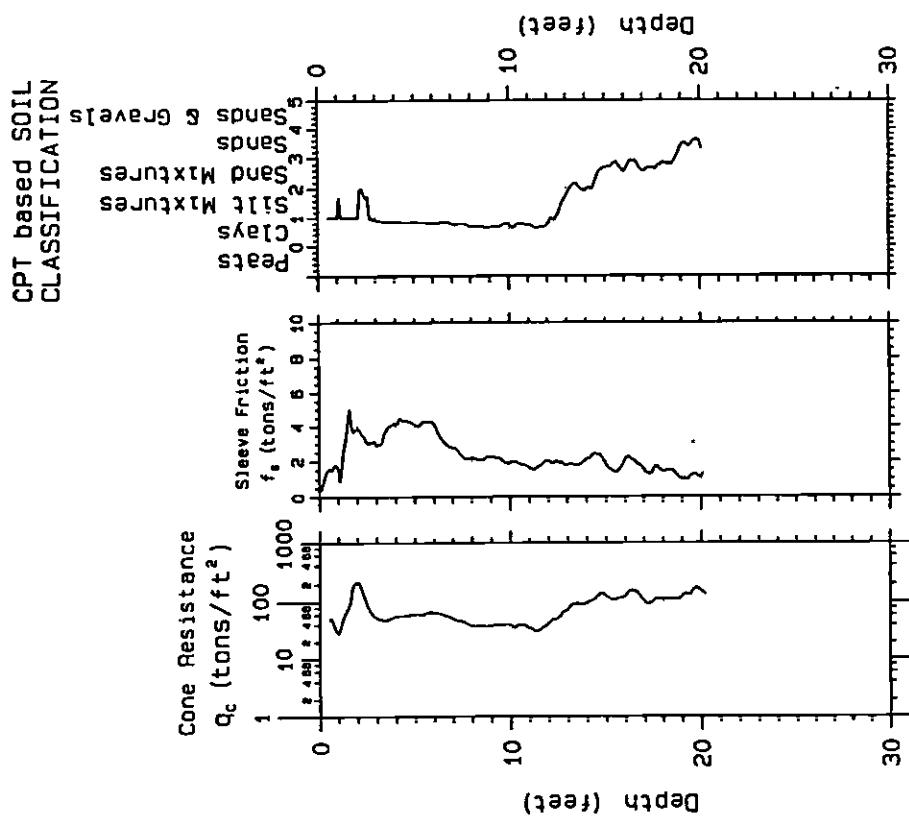
Site Characterization
and Analysis
Penetrometer System

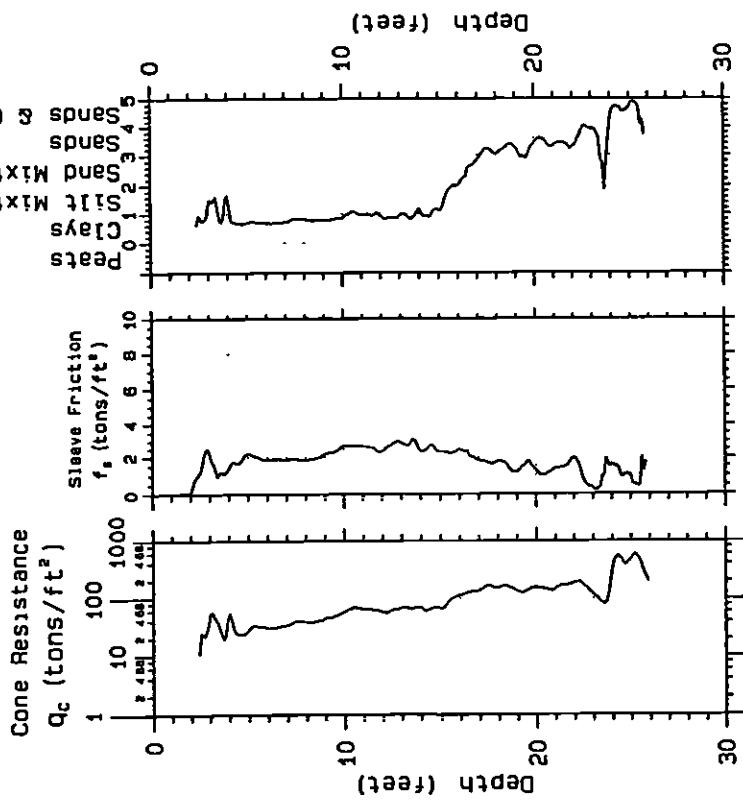
CH2M HILL Designation: PC1-
TA0C1

Project: CPT; 13C2CARS
Probe Depth: 20.36'-0
Site Characterization and Analysis Penetrometer System

MIRK
SCAPS

U.S. Army
 Engineer
 District
 Kansas City
 Geotechnical Branch
 Probing date: 10-30-1997



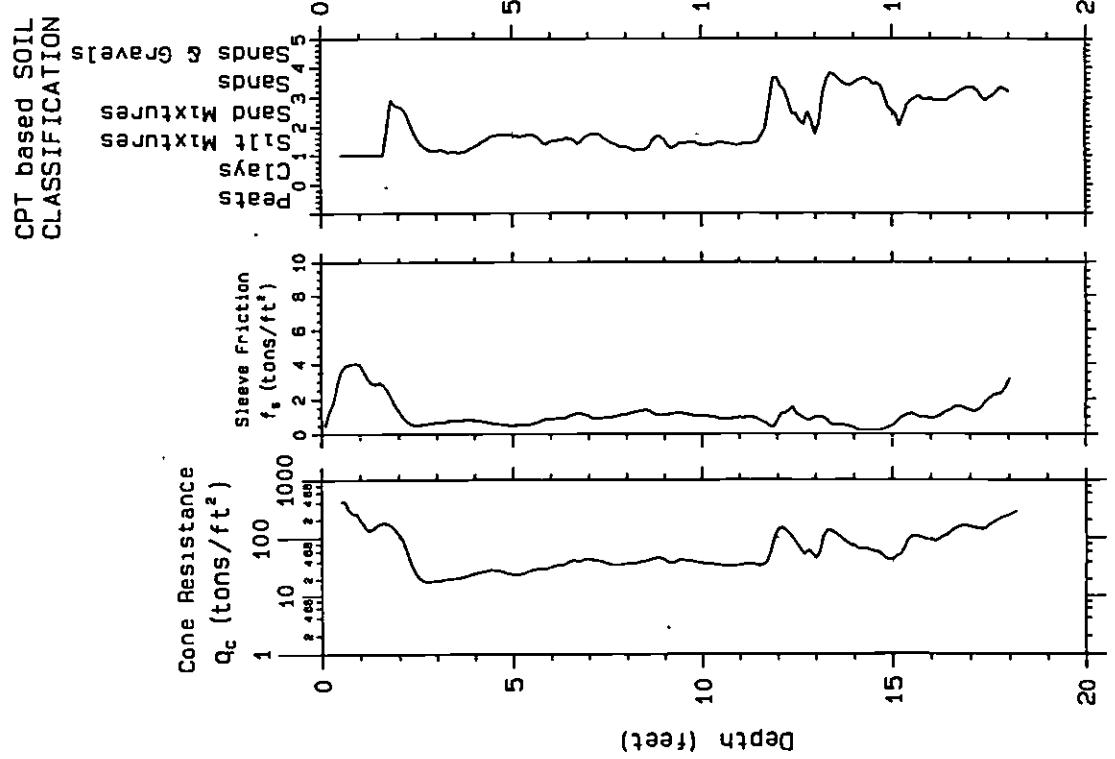
CPT based SOIL
CLASSIFICATION

MIRK
SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch
Probing date: 11-03-1997

Project:
Probe Depth: 26.08
Pre-Push Depth: 0
CPT; 29C4CARS

Site Characterization
and Analysis
Penetrometer System

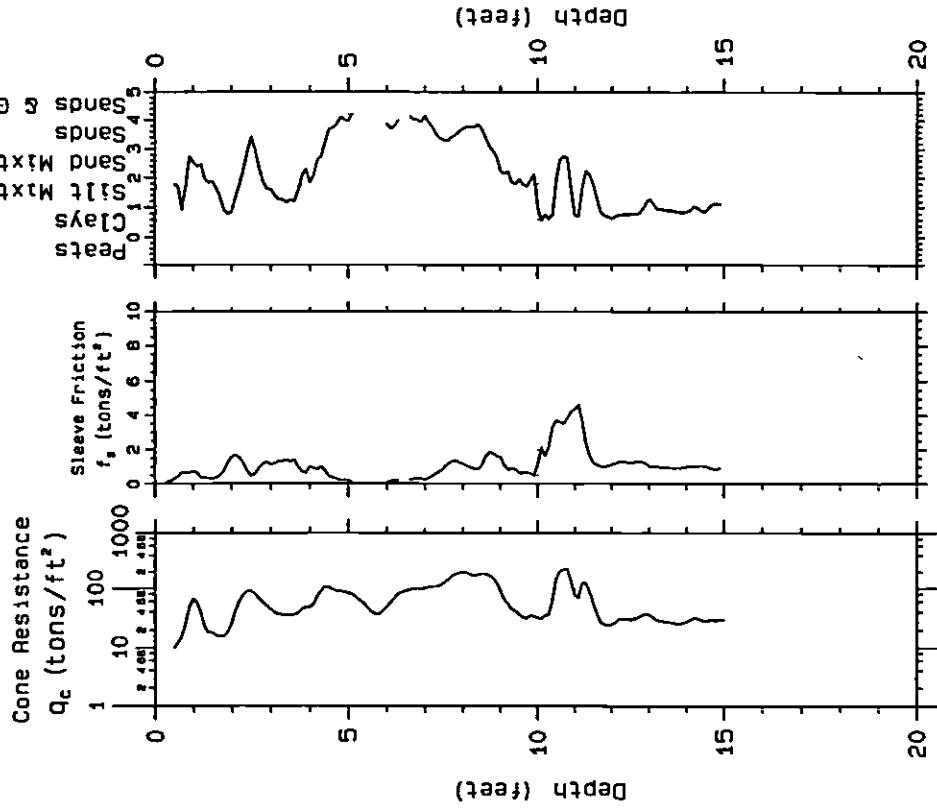


MRK SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch
Probing date: 10-29-1997

Project: PCHMHTA0D1
Probe Depth: 18.39
Pre-Push Depth: 0
CPT; 5E1CARSW
Site Characterization and Analysis Penetrometer System

CPT based SOIL
CLASSIFICATION



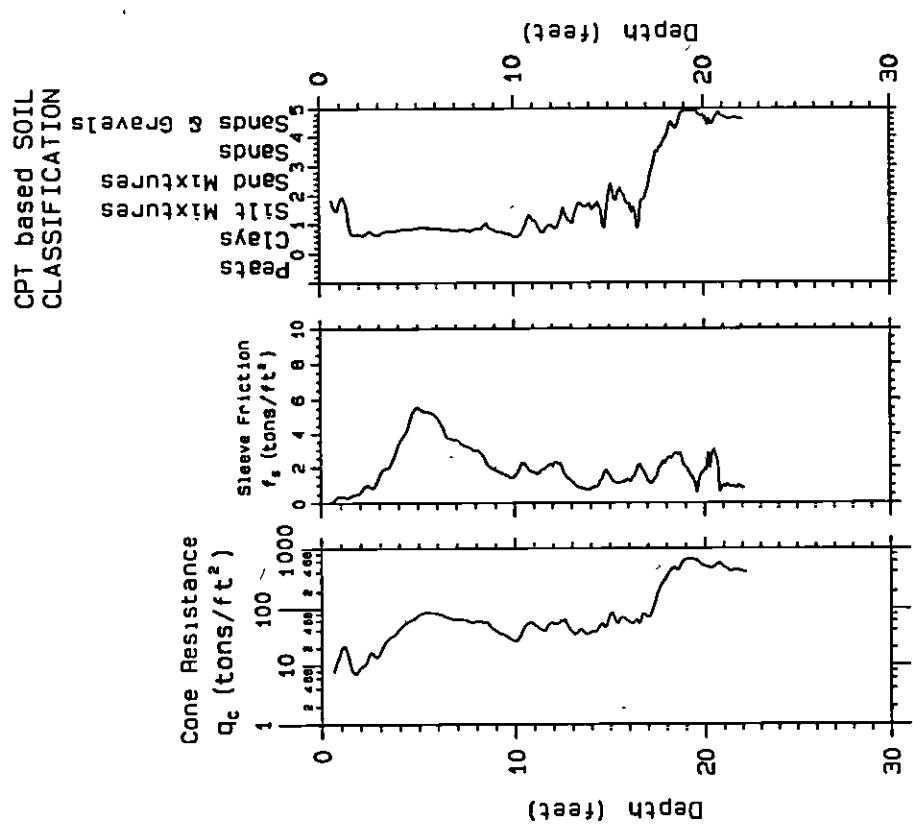
MRK
SCAPS

Site
Characterization
and Analysis
System

Project:
Probe Depth: 15. 17
Pre-Push Depth: 0
CPT; 11D2CARS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997



Probing date, 10-30-1997

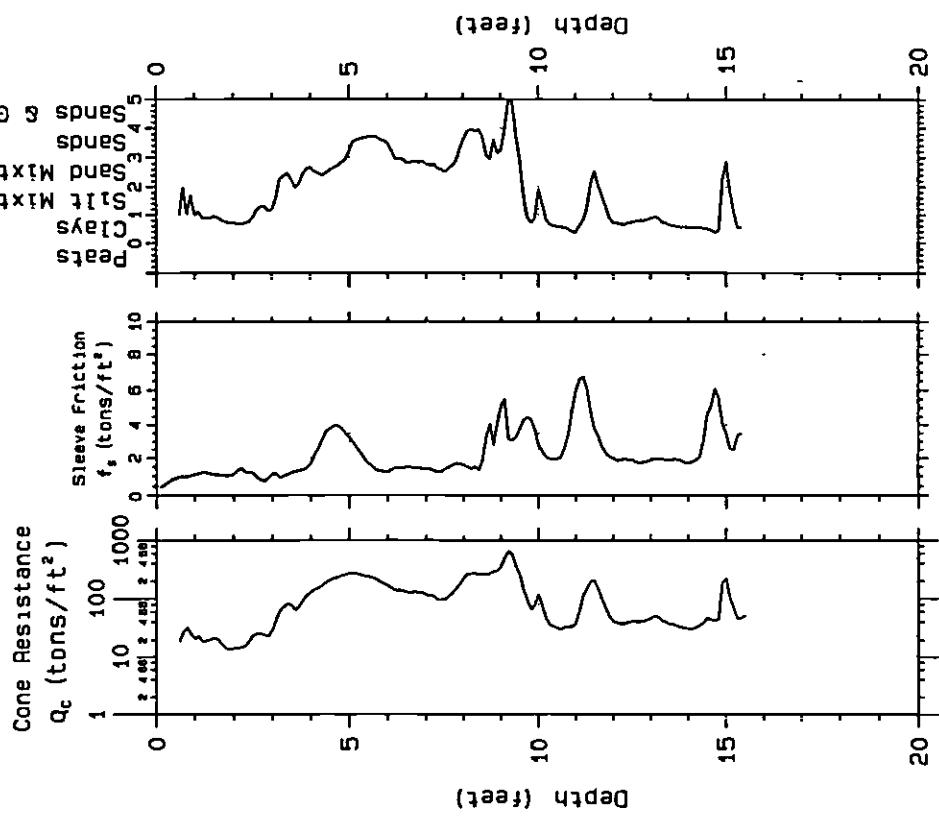
U.S. Army
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District
Kansas City
Geotechnical Branch

MIRK
SCAPS

Site Characterization
and Analysis
Penetrometer System

Project: 10D3CARS
Probe Depth: 22.42
Pre-Push Depth: 0

CPT based SOIL
CLASSIFICATION



Probing date: 10-29-1997

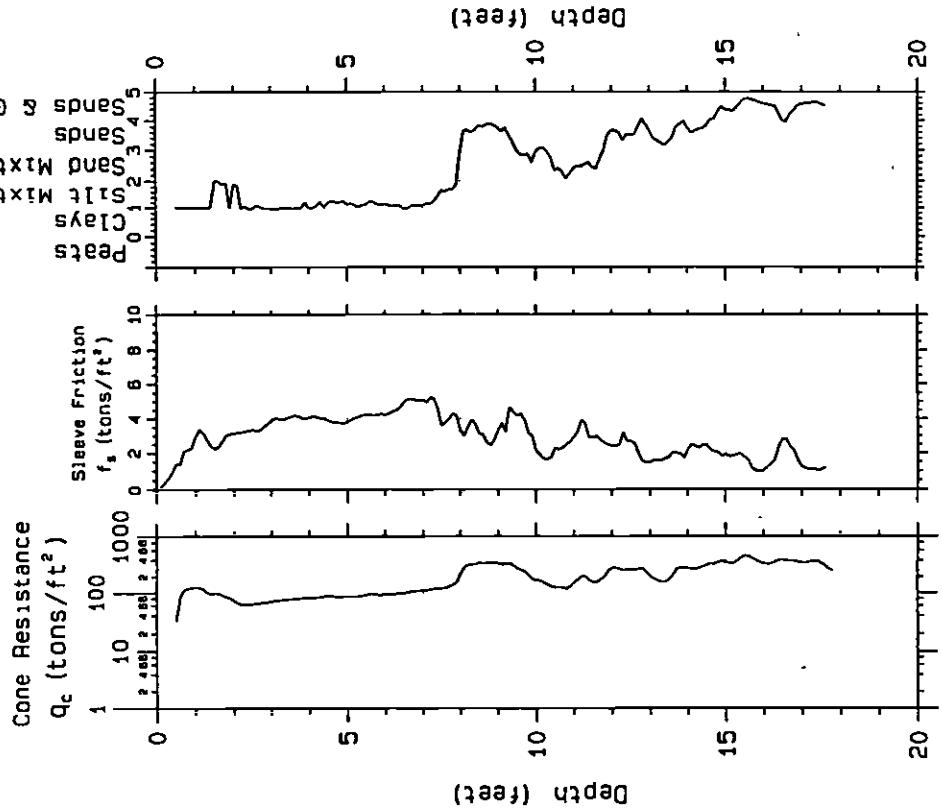
U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

MIRK
SCAPS

Site Characterization
and Analysis
Penetrometer System

Project;
Probe Depth; 15.67
Pre-Push Depth; 0
CPT; 6E2CARSW

CPT based SOIL
CLASSIFICATION



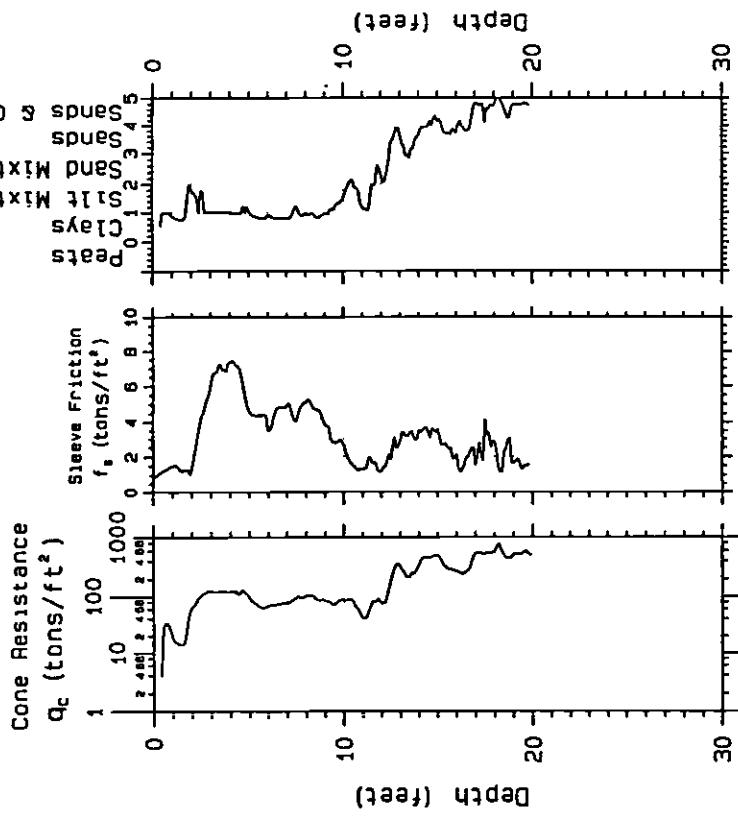
MRK
SCAPS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch
Probing date: 10-30-1997

Project:
Probe Depth: 17.92
Pre-Push Depth: 0
Site Characterization
and Analysis
Penetrometer System

CPT; 9E3CARSW

CH2M HILL Designation: PCHMMHTA0E3

CPT based SOIL
CLASSIFICATION

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

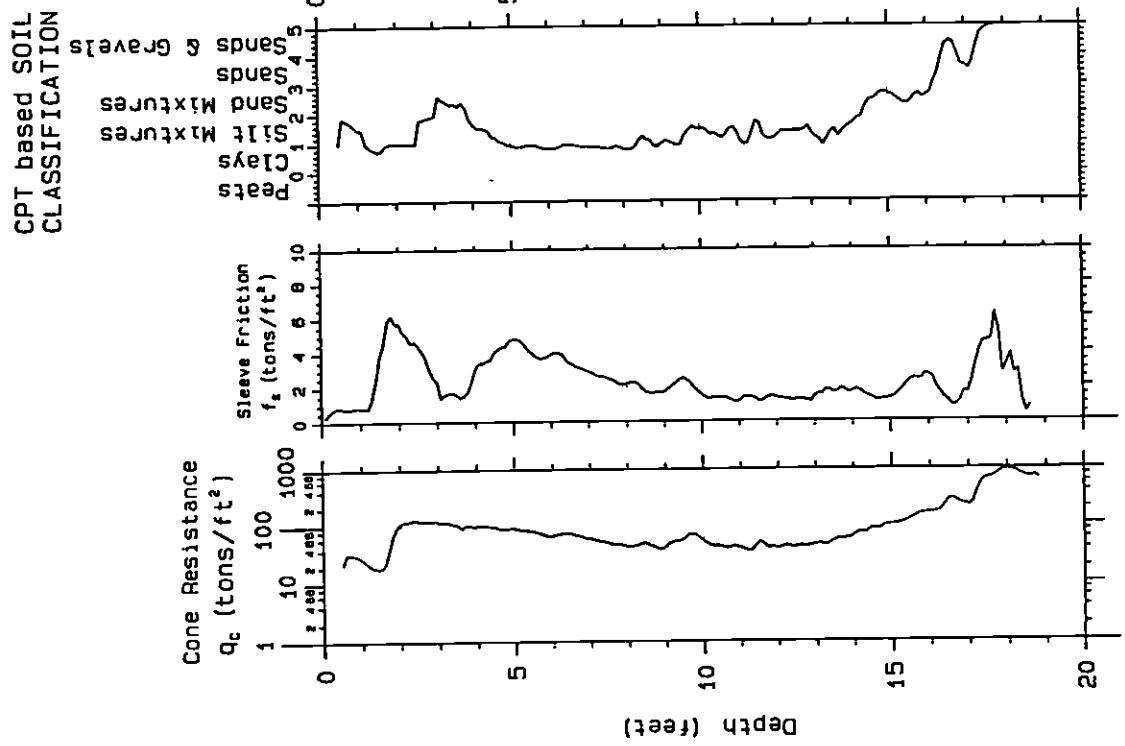
Probing date: 10-29-1997

MRK
SCAPS

Site
Characterization
and Analysis
Penetrometer System

Project;
Probe Depth: 20.09
Pre-Push Depth: 0
CPT; 7E4CARSW

CH2M HILL Designation: PCI-HTA0E4



**MRK
SCAPS**

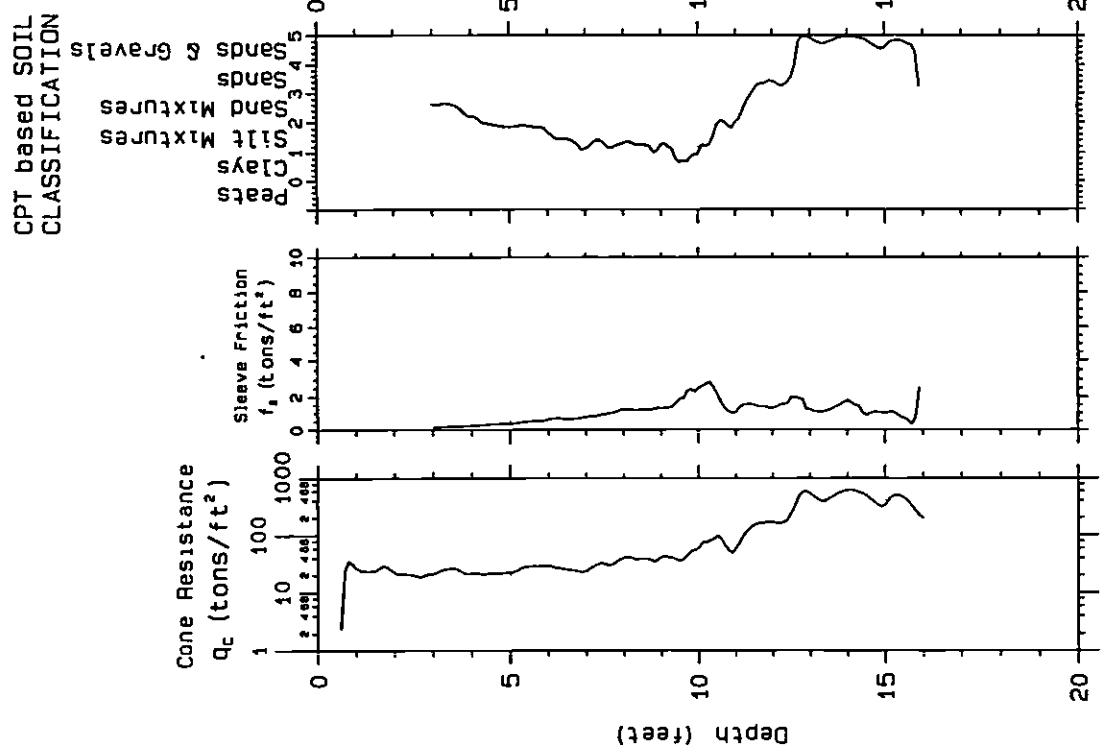
U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

Probing date: 10-30-1997

Project: 18.96-
Probe Depth: 18.96-
Pre-Push Depth: 0
CPT; 8E5CARSW

Site
Characterization
and Analysis
Penetrometer System

CH2M HILL Designation: PCHMMHTA0E5



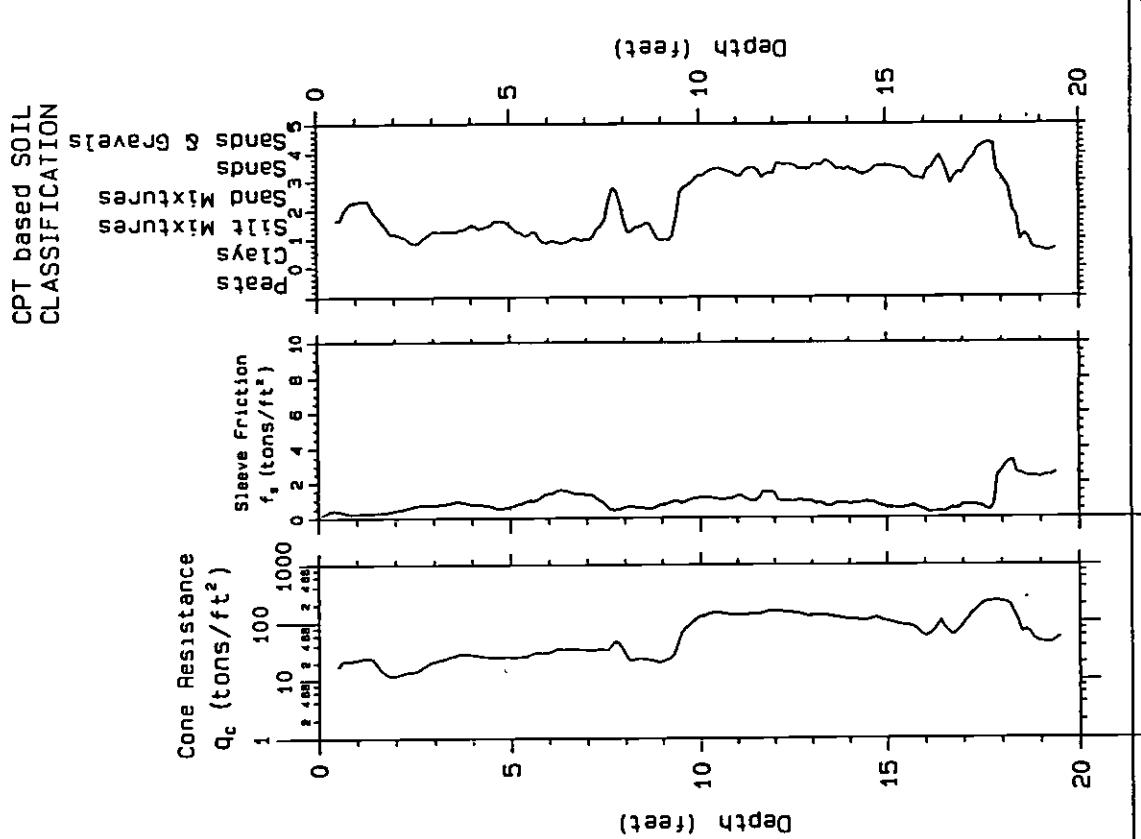
**MIRK
SCAPS**

Project: 16.17
Probe Depth: 0
Pre-Push Depth:
CPT; 27E6CARS

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

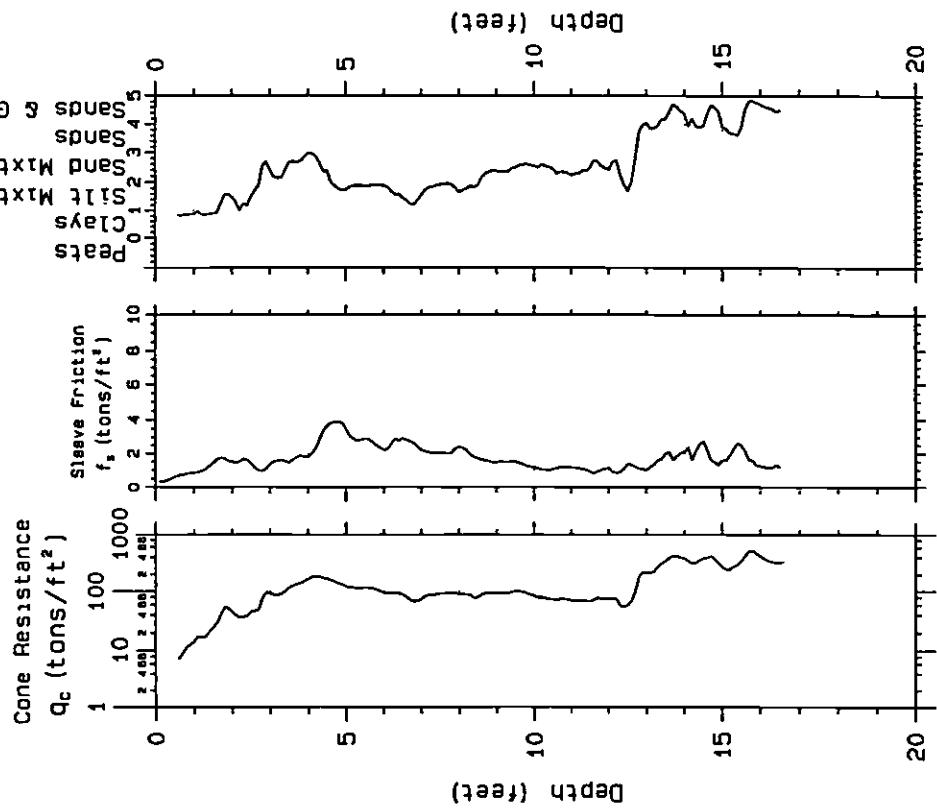
Probing date: 10-31-1997

CH2M HILL Designation: PC/TA0E6



Project: Near church <NEW>
 Probe Depth: 19.64
 Pre-Push Depth: 0
MRK SCAPS
 Site Characterization and Analysis Penetrometer System
CPT; 1FCARSWE
 U.S. Army Engineer District Kansas City Geotechnical Branch
 Probing date: 10-29-1997

CPT based SOIL
CLASSIFICATION



Probing date: 10-29-1997

U.S. Army
Engineer
District
Kansas City
Geotechnical Branch

MRK
SCAPS

Site
Characterization
and Analysis
Penetrometer System

CPT; 2FCARSWE

Project; Near Church
Probe Depth; 16.82
Pre-Push Depth; 0

OAK RIDGE NATIONAL LABORATORY

MANAGED BY LOCKHEED MARTIN ENERGY RESEARCH CORPORATION
THE U S DEPARTMENT OF ENERGY

POST OFFICE BOX 2008
OAK RIDGE, TN 37831-6120

PHONE (423) 574-4861
FAX: (423) 576-7956

INTERNET SMITHRR1@ORNL.GOV

November 11, 1997

Matthew T. Wilson
Environmental Specialist
CH2M Hill
5339 Alpha Road, Suite 300
Dallas, Texas 75240-7352

Matt,

I enjoyed the opportunity to work with you again in Fort Worth. I presume that you received a FAX yesterday with the direct sampling mass spectrometer (DSMS) results from our work at Carswell. At this point in time, I am pretty comfortable with the data as reported. If you should find that there are some incongruities either between the faxed data and what I gave you in the field or between the faxed data and the lab results on the bailed wells then please let me know so that we can hash things out for possible explanations.

During this deployment, an in-situ sparging device was lowered down the 3/4" LD wells installed using the Site Characterization Analysis and Penetrometer System (SCAPS). VOC's present in the groundwater were helium purged to the surface and directed into the DSMS. Quantitation was effected by comparison with similarly analyzed standards which I prepared daily in the field.

The first page of your data packet is a copy of the faxed data which you have already received. This table is also provided on a 3 1/2" floppy diskette in Lotus 1-2-3® format for your convenience. Following this page are the data pages. There are at least two pages per hole. The first of these is a plot of the characteristic ions for the compounds which we have seen at Carswell (ie. TCE, DCE and/or TCA, and PCE). In most instances you can look at this page to get a rough idea of the concentration range of the well. There were a few cases where DCE appeared to be present by looking at this page but was, in fact, not present. These cases will become apparent when you examine the second page which is a spectral tracing for the well signal. The DCE masses, 96 and 98, also are generated by TCE. DCE presence is only assured when the 96/98 pair are more intense than the 94 ion. In the case of well A4, it contained a substantial (ca. 20 ppm) of hydrocarbon. This figure was derived by comparing the sum of the hydrocarbon characteristic ions (69, 91, and 105) against a kerosene in water standard.

Lastly, in case you wondered about the waste barrel, the only VOC which I could detect was 4 ng/ml of chloroform (most chlorinated municipal water supplies contain 20 to 25 ng/ml of chloroform).

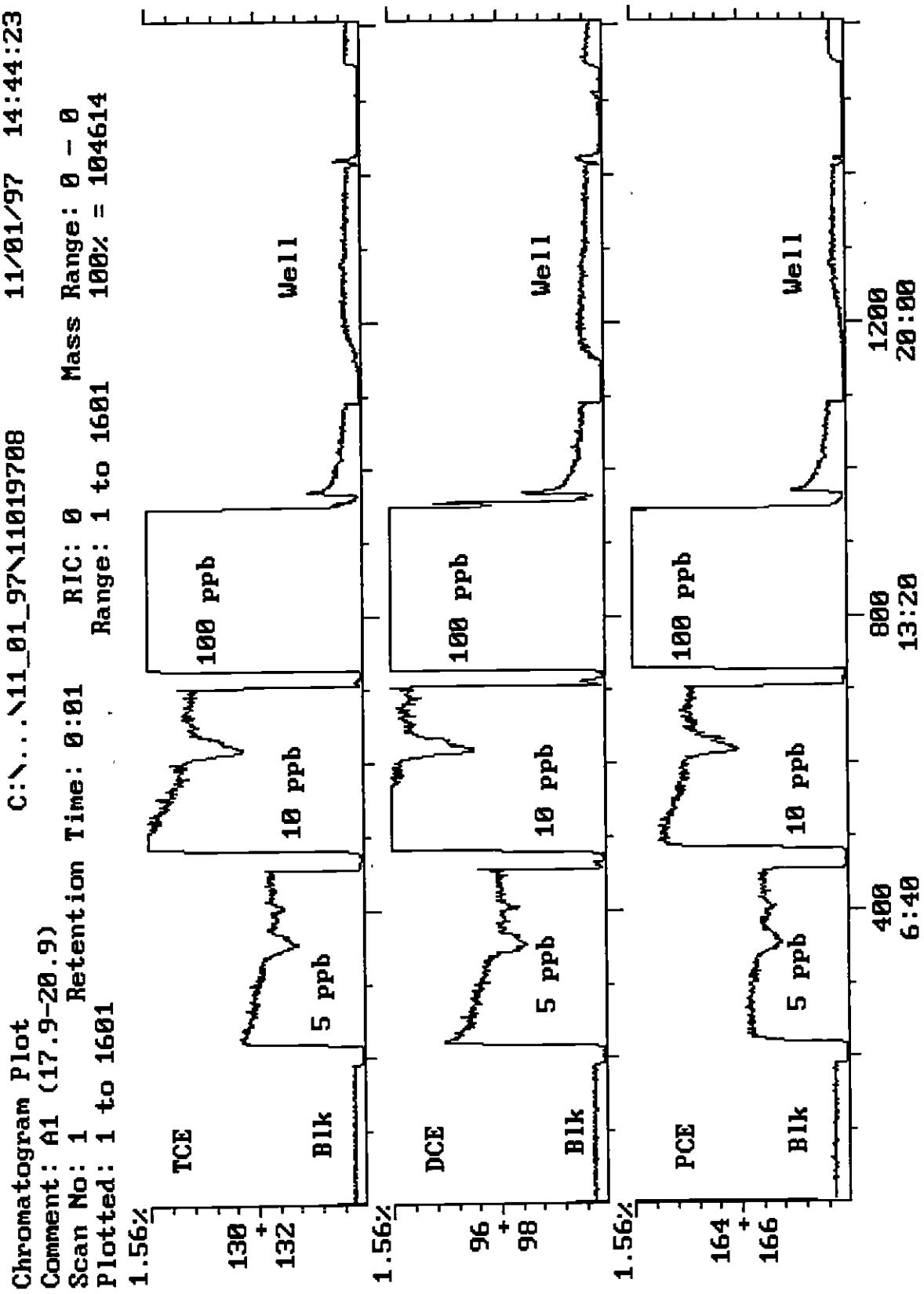
Sincerely,

Rob R. Smith
Research Associate
Chemical and Analytical Sciences Division
Oak Ridge National Laboratory

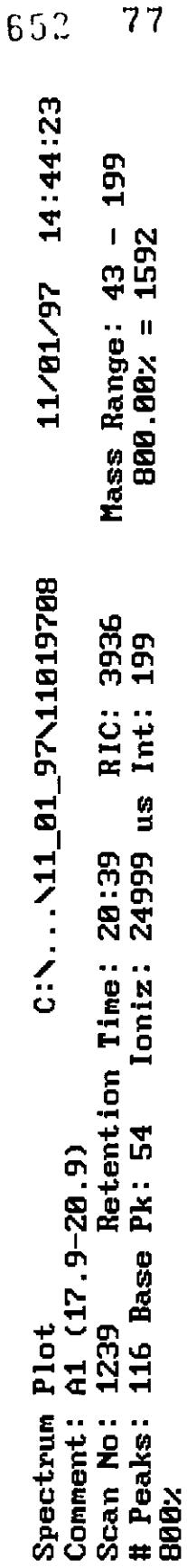
cc. Kathy Olden

Naval Sir Station (NAS)
Fort Worth Joint Reserve Base (JRB)
 November 1997 DSITMS Deployment

Well ID	Date Pushed	Date Sampled	TCE (ppb)	PCE (ppb)	DCE & TCA (ppb)	Hydrocarbons (ppm)
A1(17.9-20.9)	11/01/97	11/01/97	<5	<5	<5	
A2(15.4-18.4)	11/01/97	11/01/97	36	<5	<5	
A3(25.3-28.3)	11/01/97	11/01/97	550	23	<5	
A4(15.0-18.0)	11/03/97	11/03/97	<5	<5	<5	20
B1(22.0-25.0)	11/01/97	11/01/97	1800	10	<5	
B2(18.4-21.4)	11/01/97	11/01/97	860	<5	<5	
B3(15.1-18.1)	11/03/97	11/03/97	570	<5	160	
B4(27.7-30.7)	11/01/97	11/01/97	<5	<5	<5	
C1(15.0-18.0)	11/01/97	11/01/97	1400	<5	<5	
C2(17.2-20.2)	10/31/97	10/31/97	460	<5	82	
C4(23.1-26.1)	11/03/97	11/03/97	310	<5	220	
D1(15.3-18.3)	10/31/97	10/31/97	<5	<5	<5	
D2(12.5-15.5)	10/31/97	11/01/97	<5	<5	27	
D3(21.3-24.3)	10/31/97	10/31/97	340	<5	45	
E1(16.7-19.7)	10/29/97	10/29/97	<5	<5	<5	
E2(12.4-15.4)	10/31/97	11/01/97	<5	<5	19	
E3(15.1-18.1)	10/31/97	10/31/97	23	250	360	
E4(17.3-20.3)	10/31/97	10/31/97	340	<5	51	
E6(13.7-16.7)	10/31/97	10/31/97	5.2	<5	11	
F1(16.7-19.7)	10/29/97	10/29/97	<5	<5	<5	
F2(16.4-19.4)	10/29/97	10/31/97	<5	<5	<5	
F3(4.5-7.5)	11/03/97	11/03/97	<5	<5	<5	

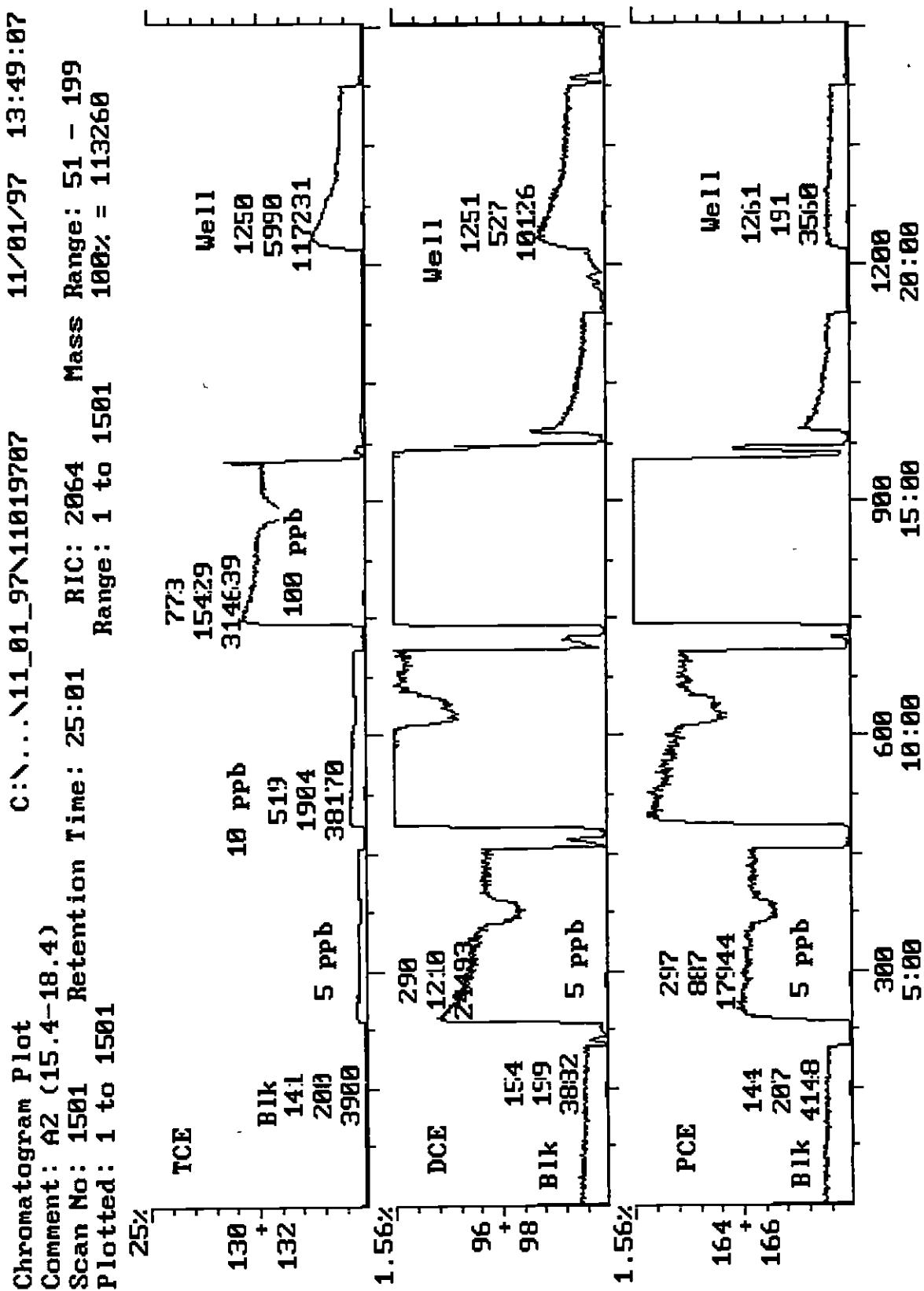


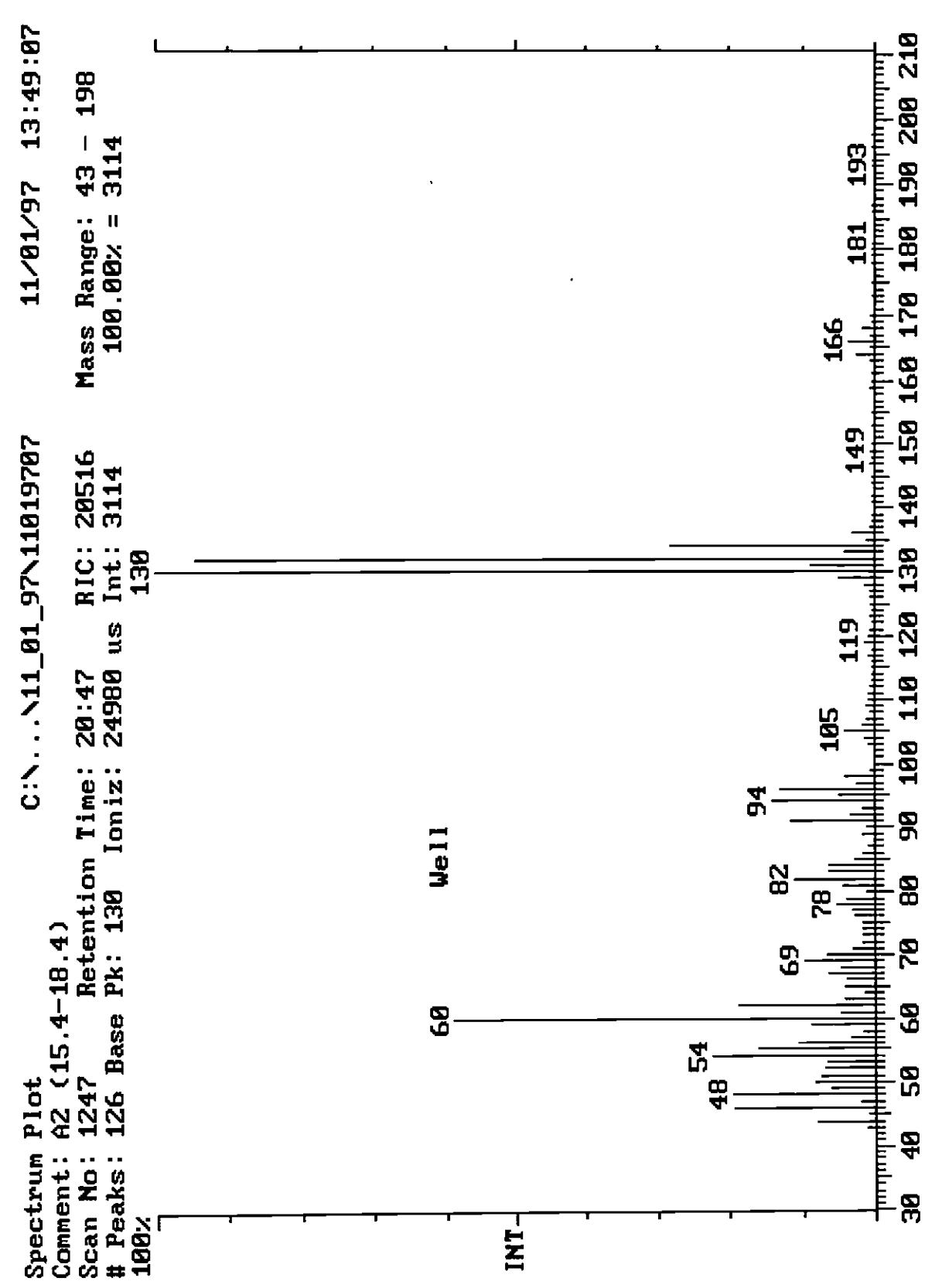
Spectrum Plot C:\...\11_01_97\11019708
Comment: A1 (17.9-20.9)
Scan No: 1239 Retention Time: 20:39 RIC: 3936 Mass Range: 43 - 199
Peaks: 116 Base Pk: 54 Ioniz: 24999 us Int: 199 800.00% = 1592

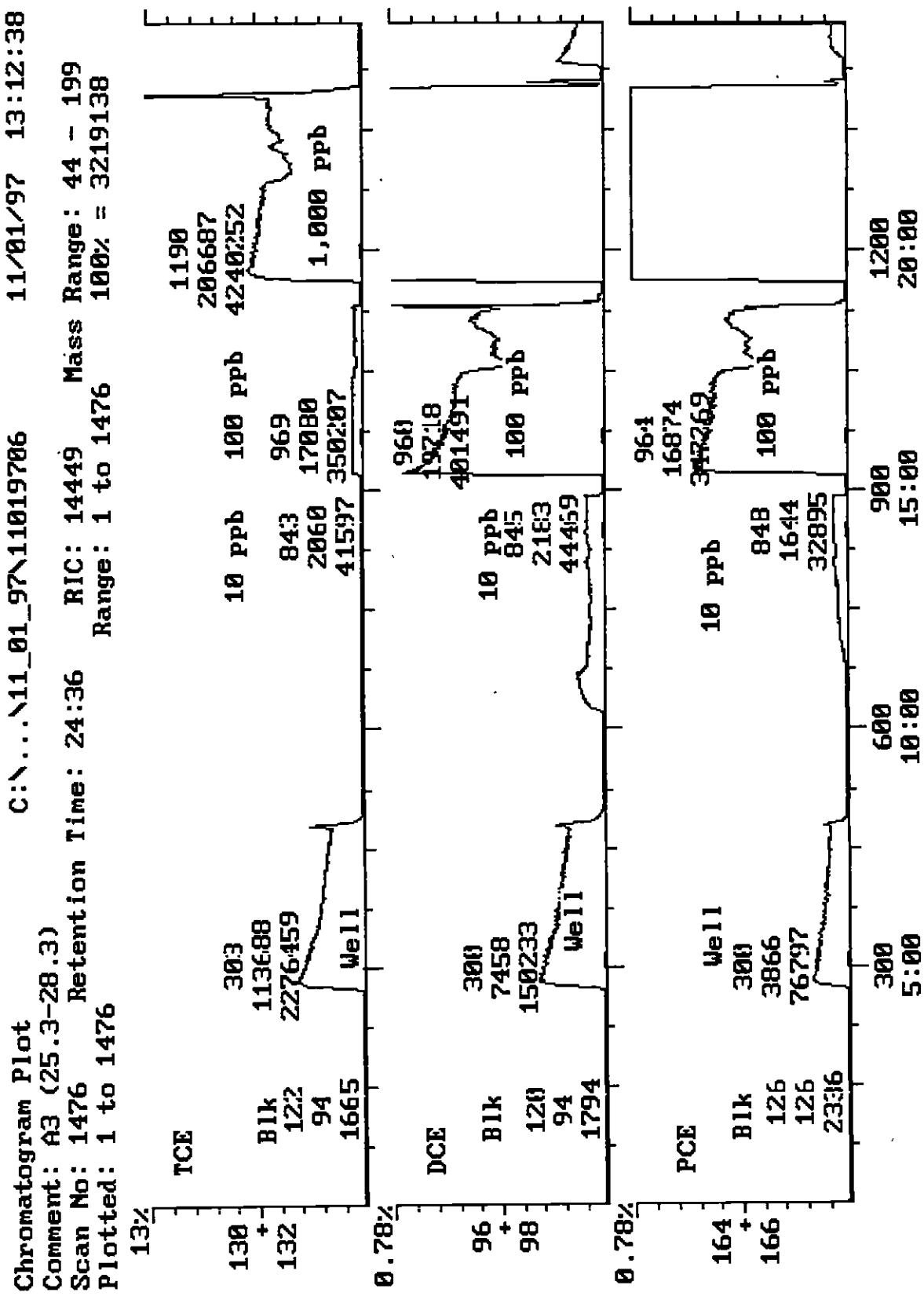


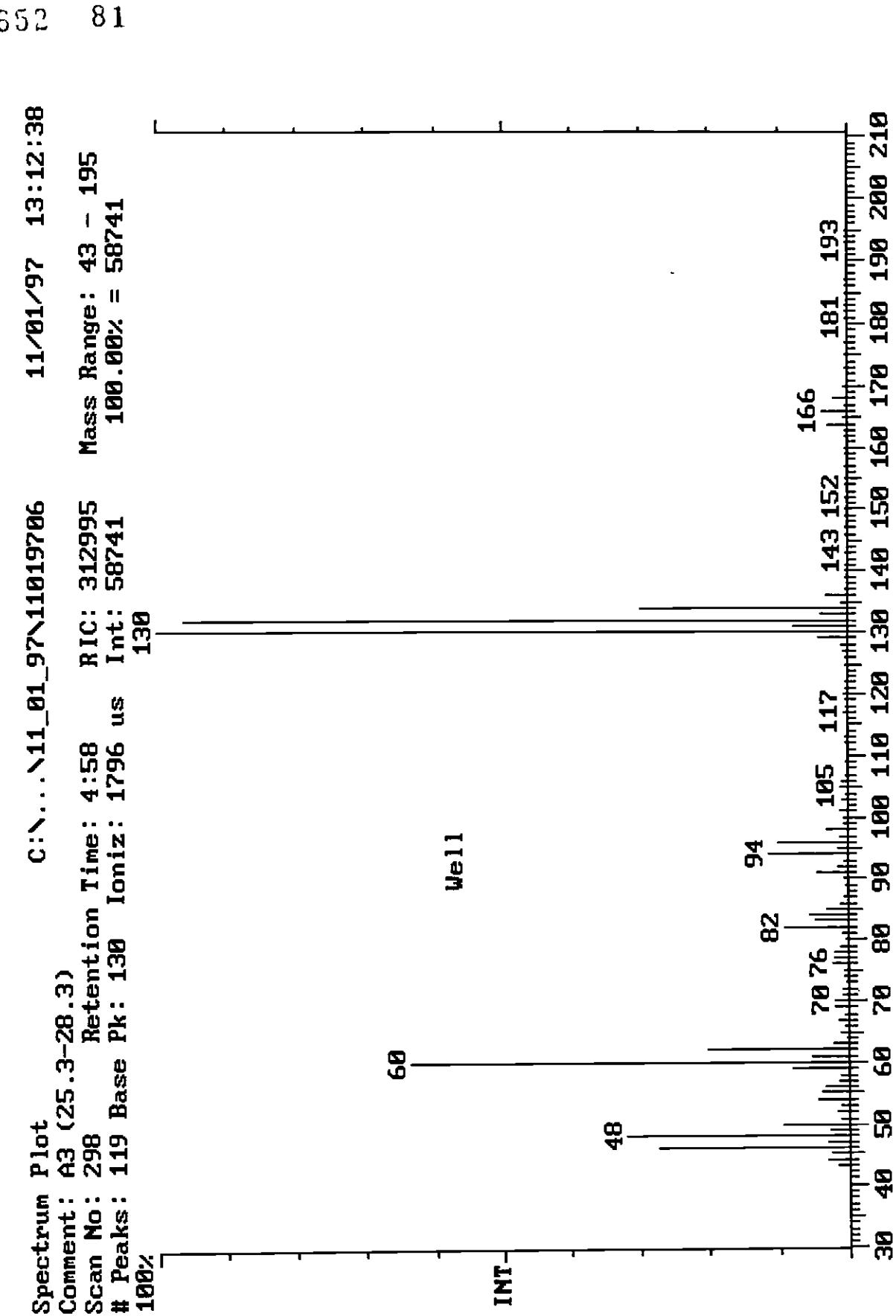
Well

INT





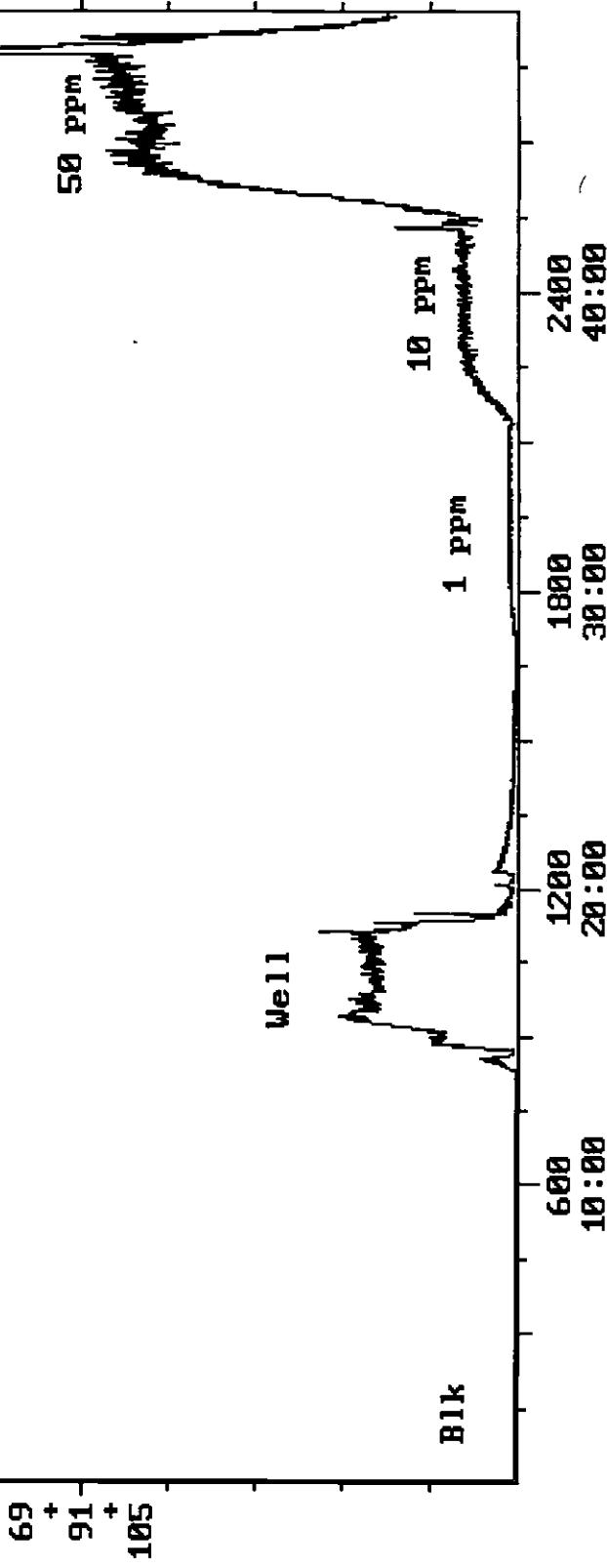




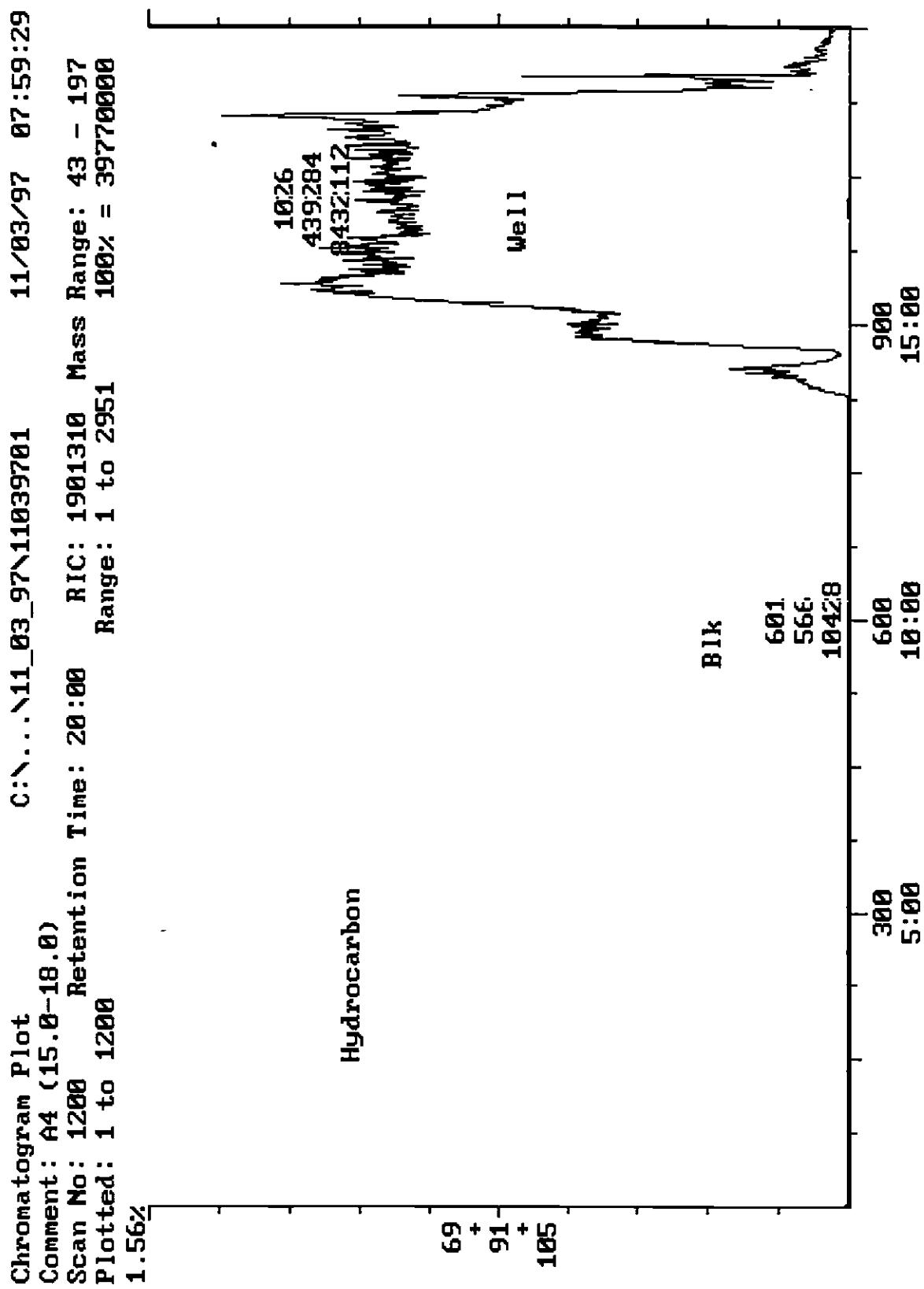
.652 .82

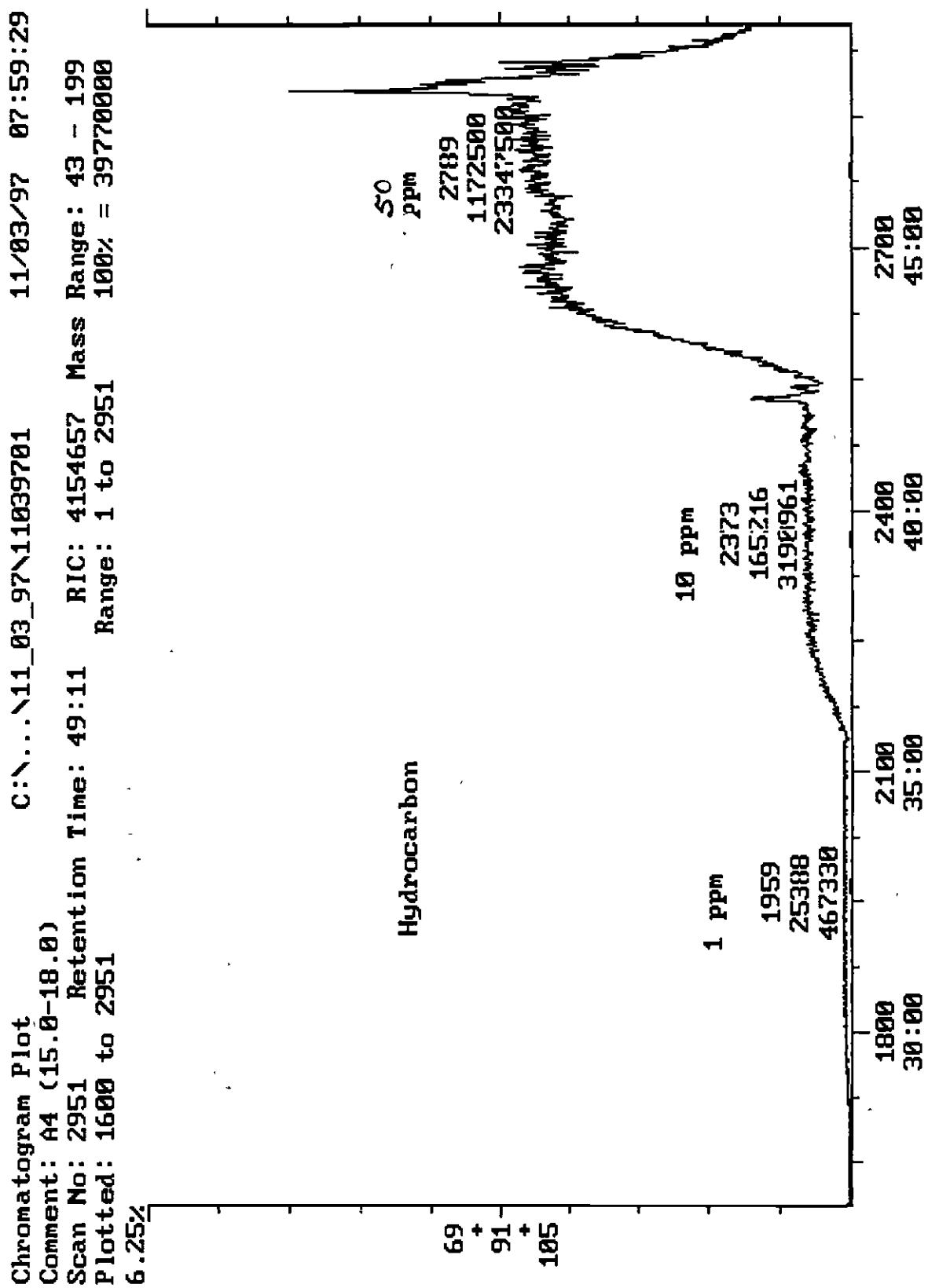
Chromatogram Plot
Comment: A4 (15.0-18.0)
Scan No.: 1 Retention Time: 0:01 RIC: 0 Mass Range: 0 - 0
Plotted: 1 to 2951 Range: 1 to 2951 100% = 39770000
6.25%

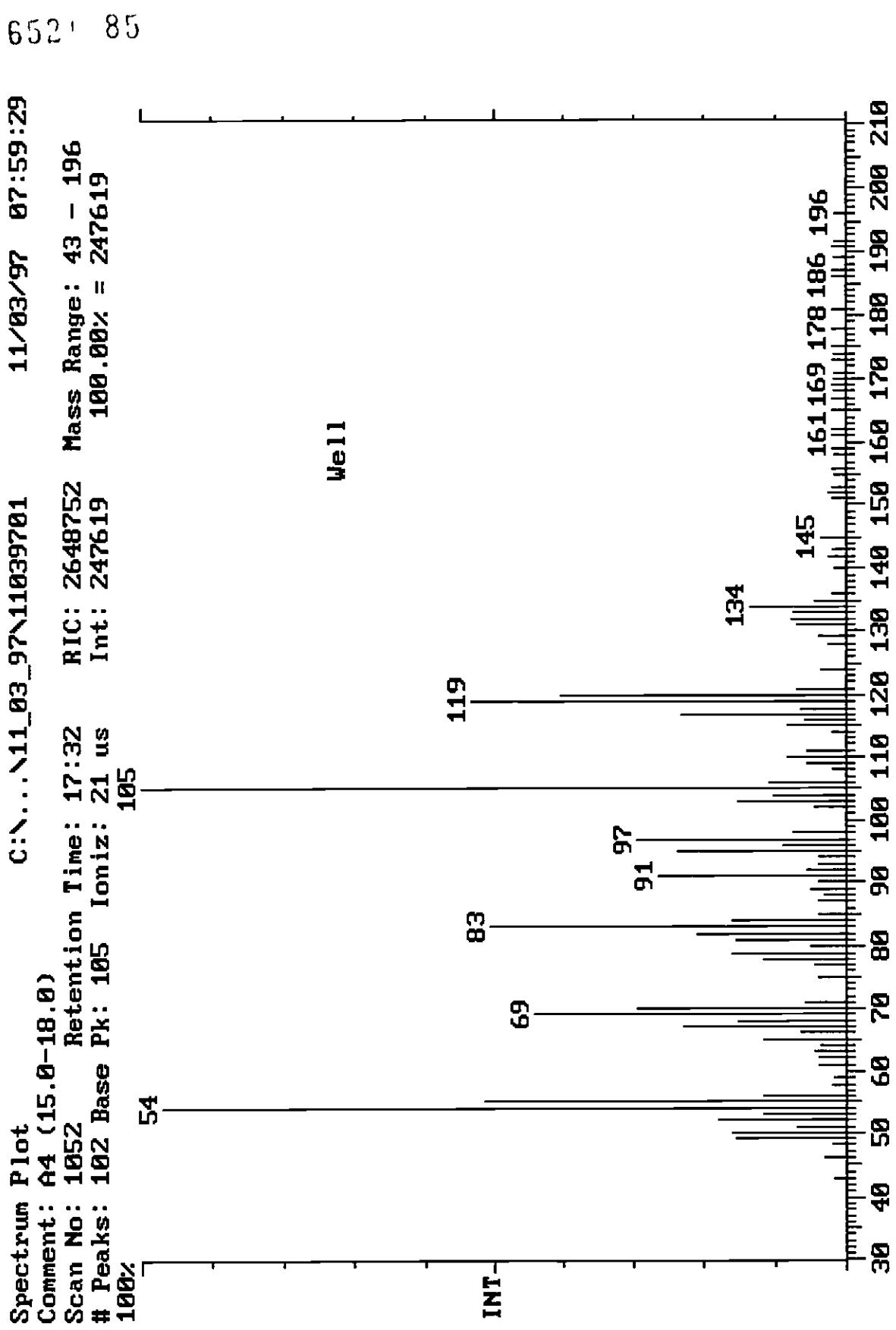
Hydrocarbon Response

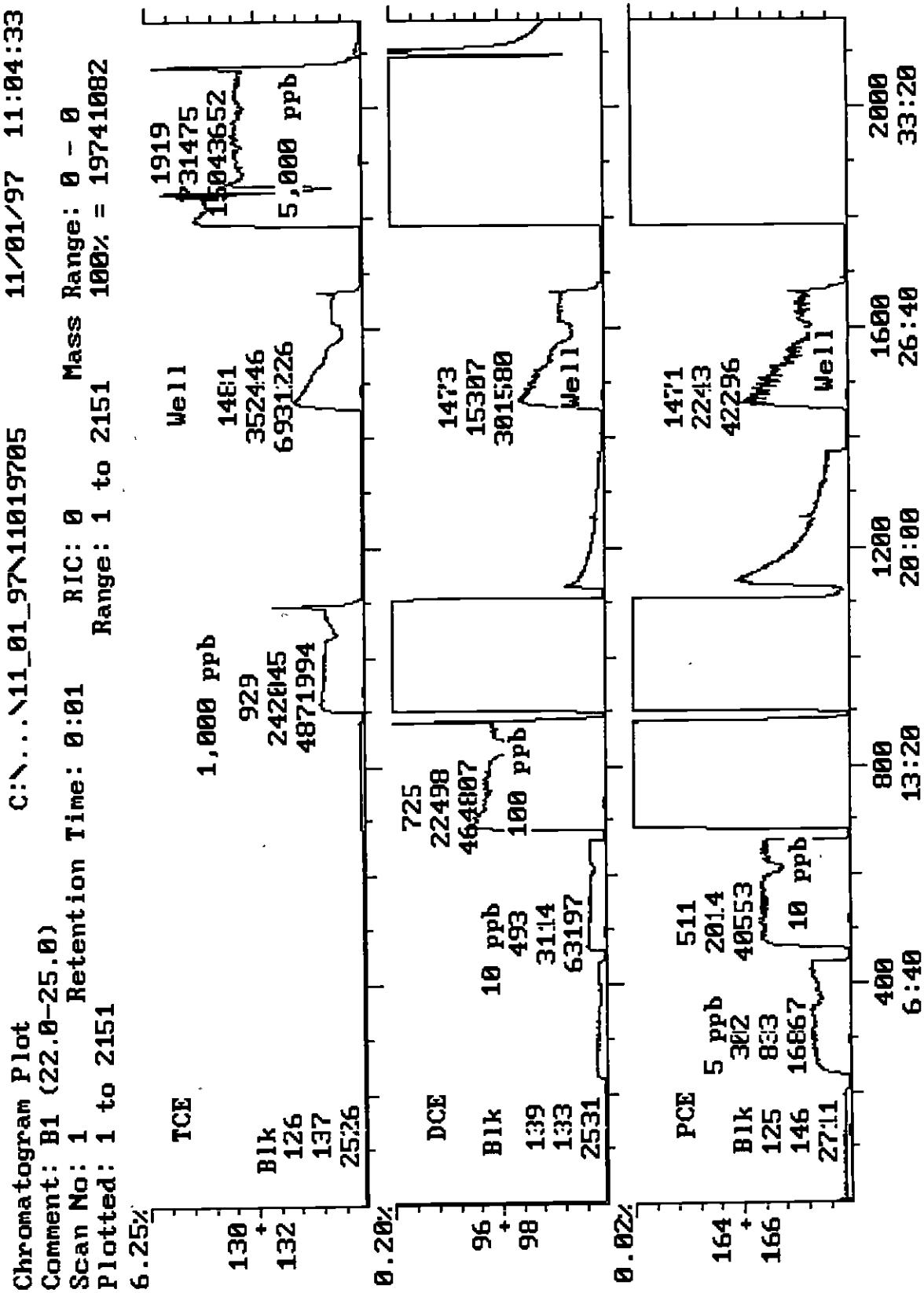


653 83

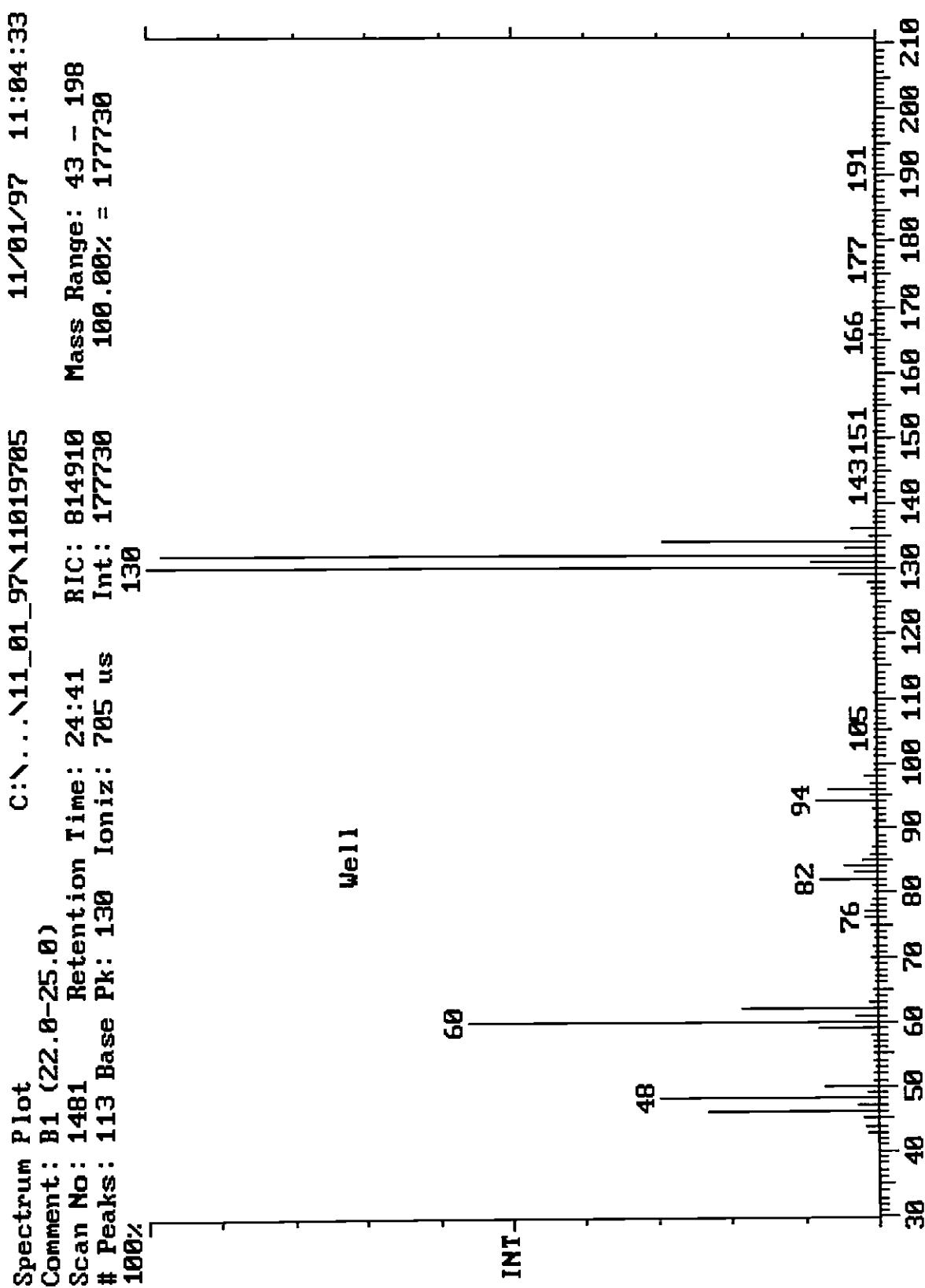


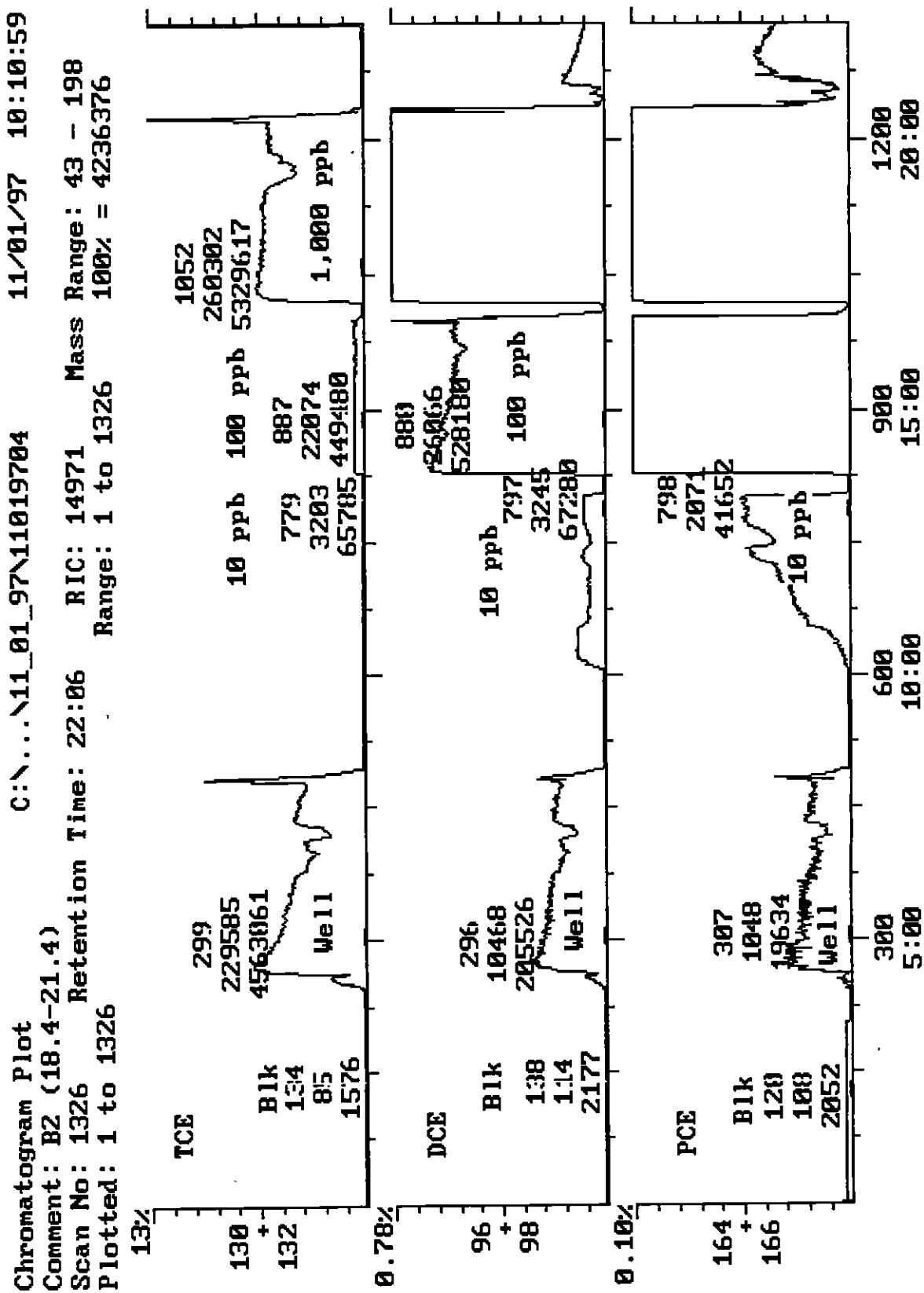


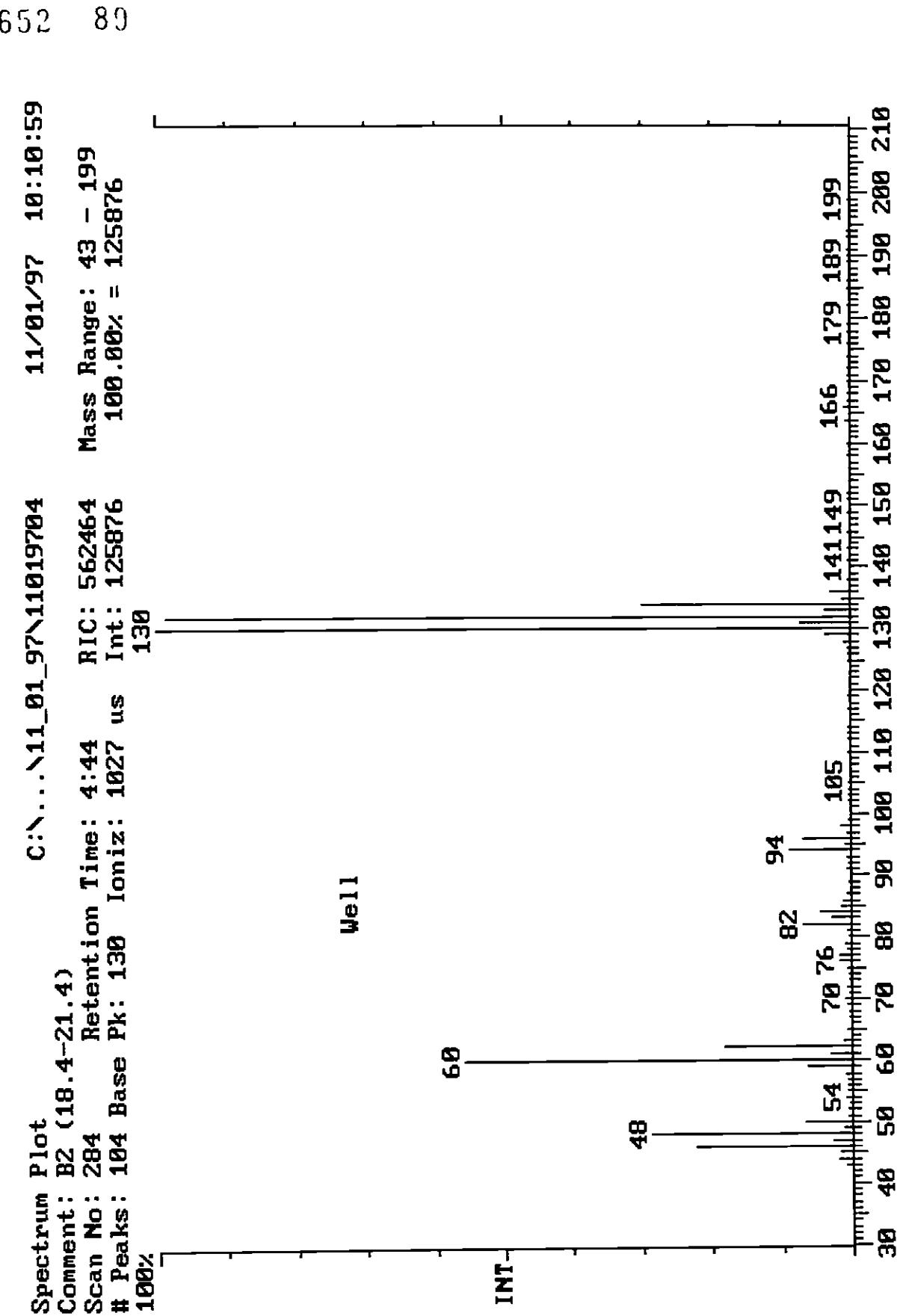




652 87



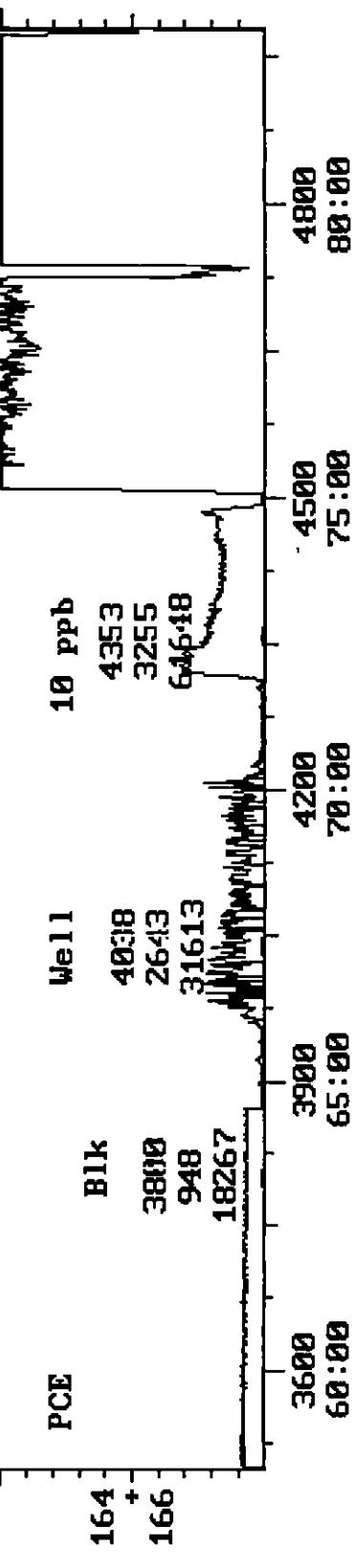
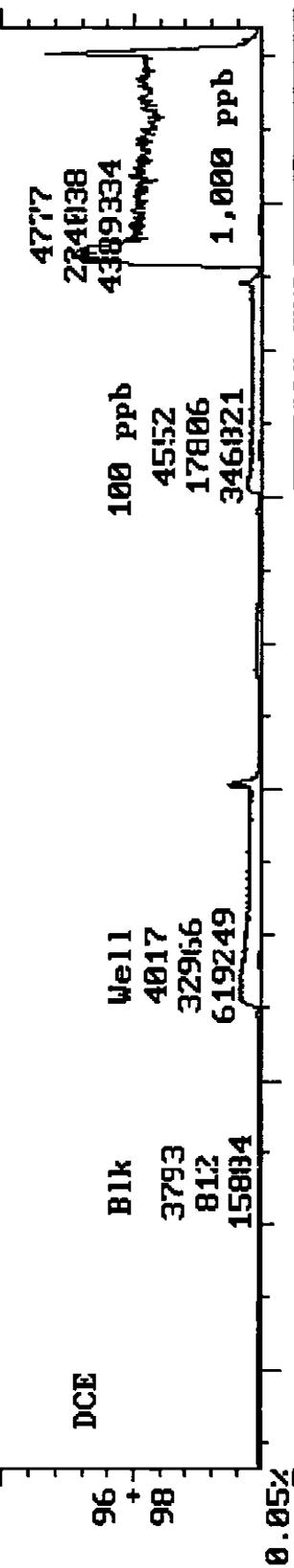
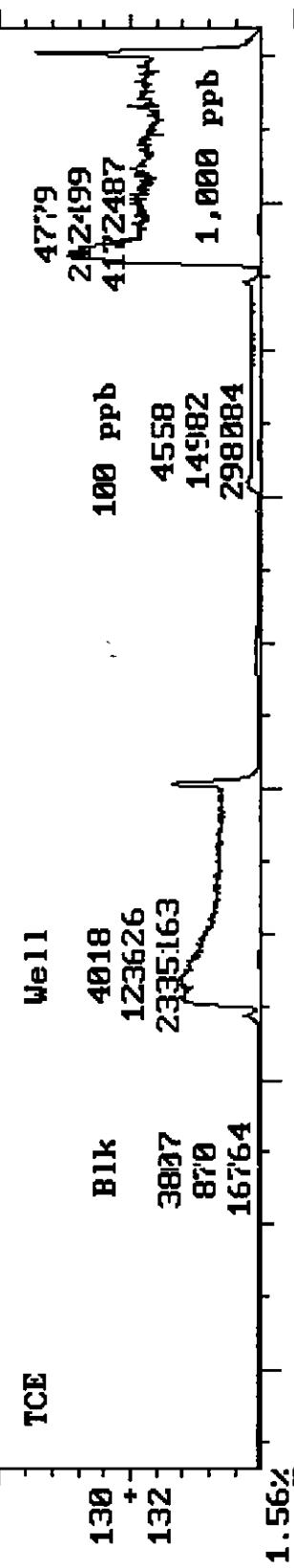




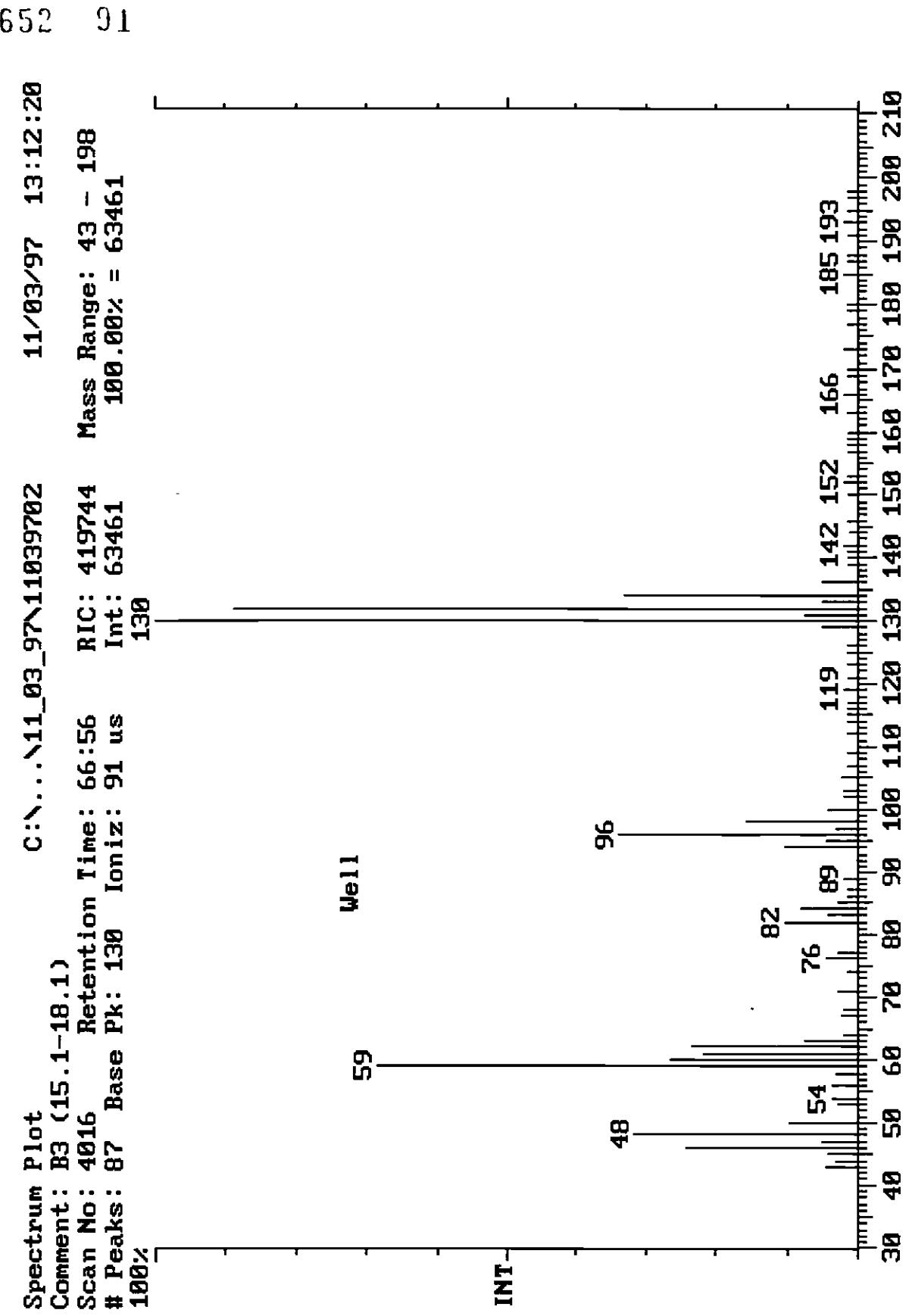
Chromatogram Plot
Comment: B3 (15.1-18.1)
Scan No: 4976 Retention Time: 82:56 RIC: 106499 Mass Range: 47 - 199
Plotted: 3500 to 4976 Range: 1 to 4976 100% = 28027500

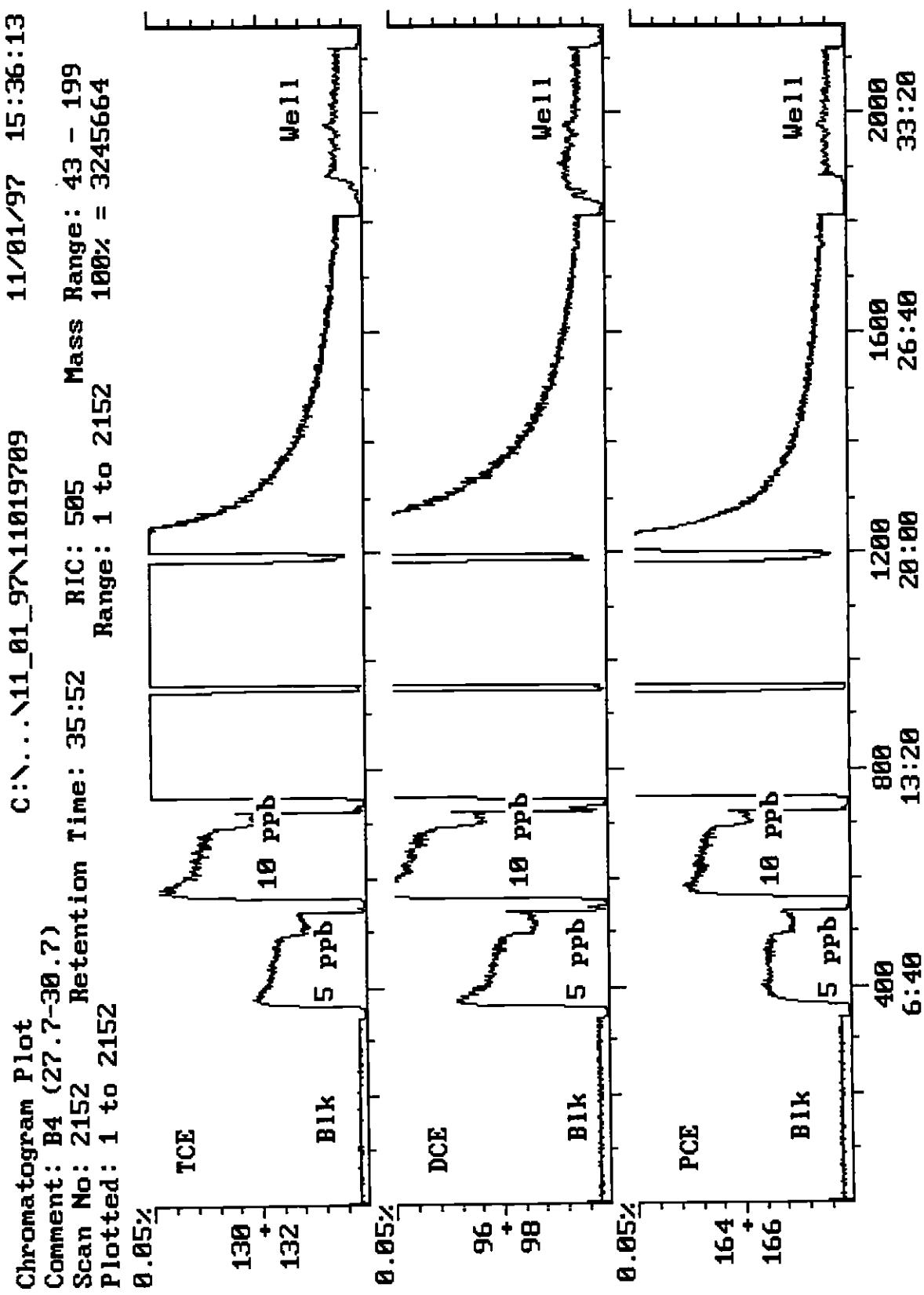
C:\...\11_03_97\1039702

11/03/97 13:12:20



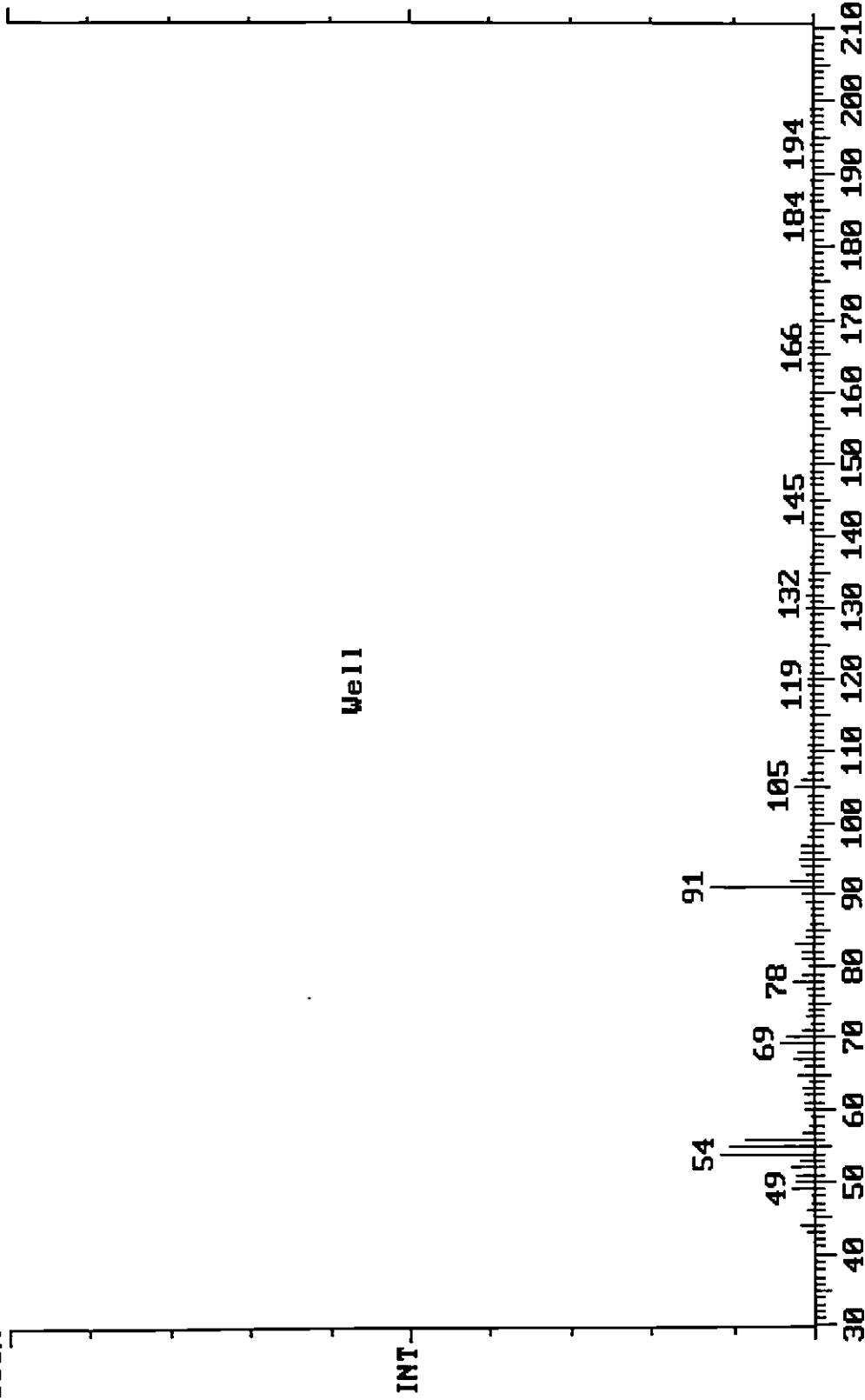
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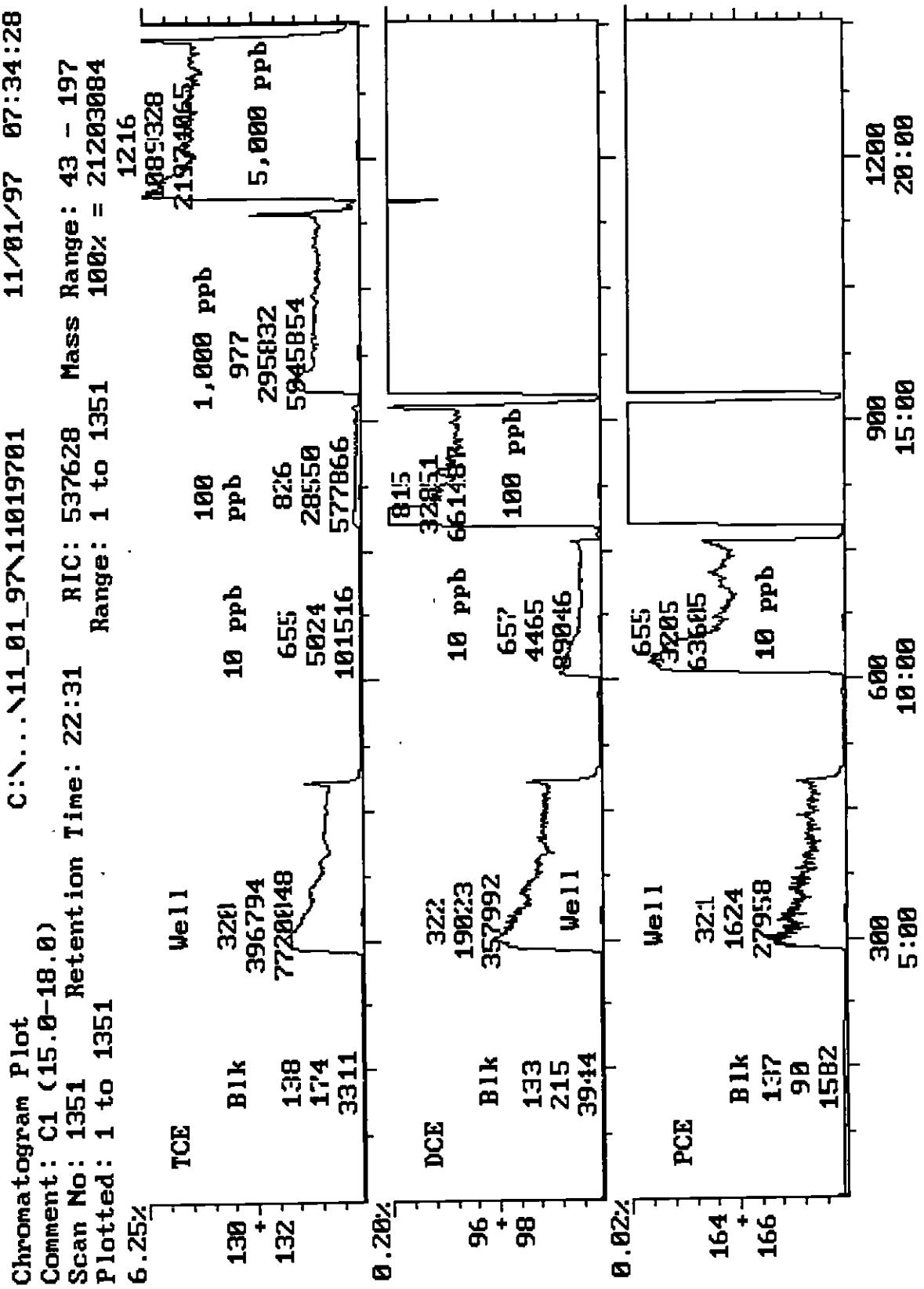




652 93

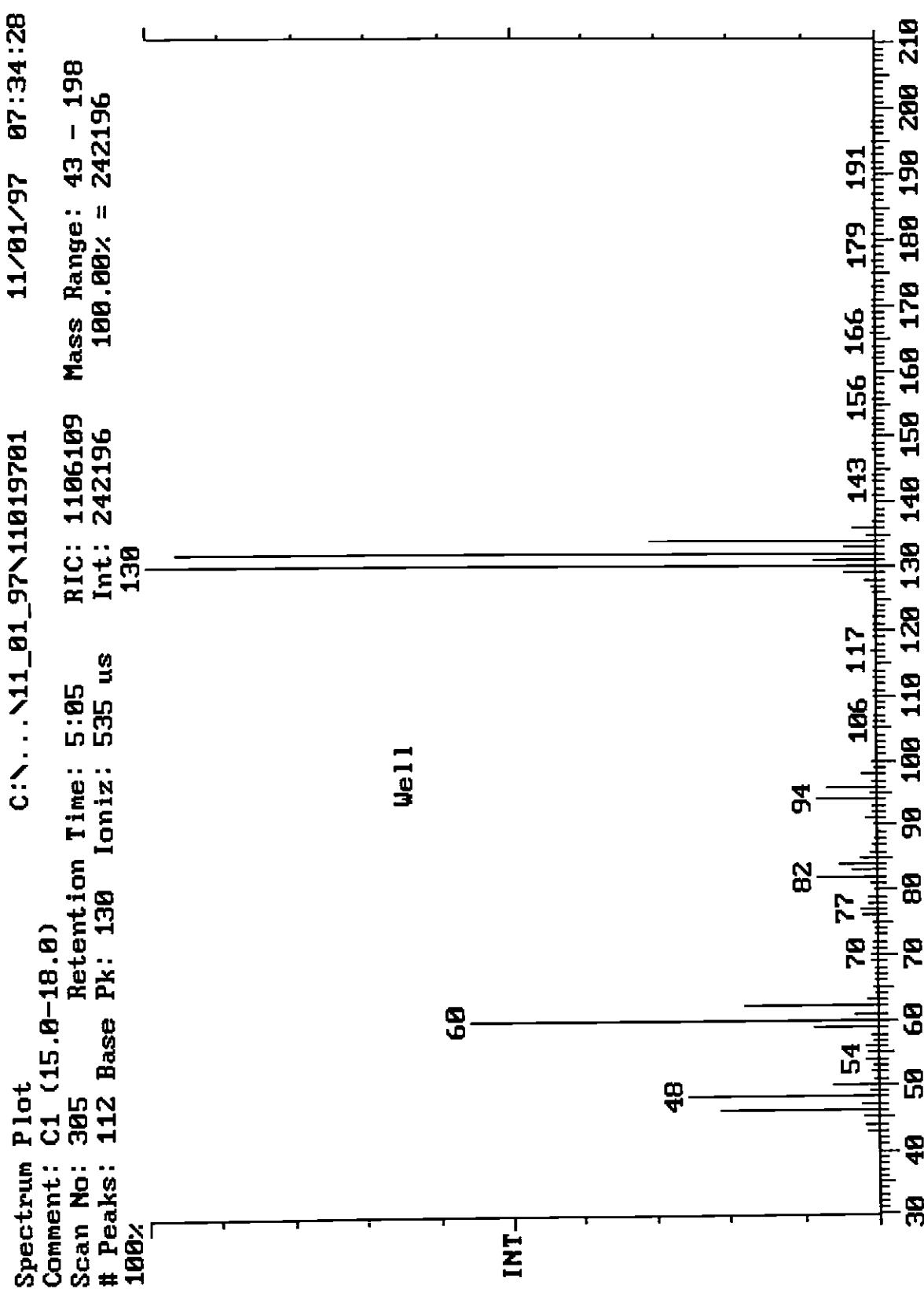
Spectrum Plot C:\...\11_01_97\11019709 11/01/97 15:36:13
Comment: B4 (27.7-30.7)
Scan No.: 1917 Retention Time: 31:57 RIC: 18517 Mass Range: 43 - 199
Peaks: 127 Base Pk: 91 Ioniz: 24999 ws Int: 2001 800.00% = 16008
800%

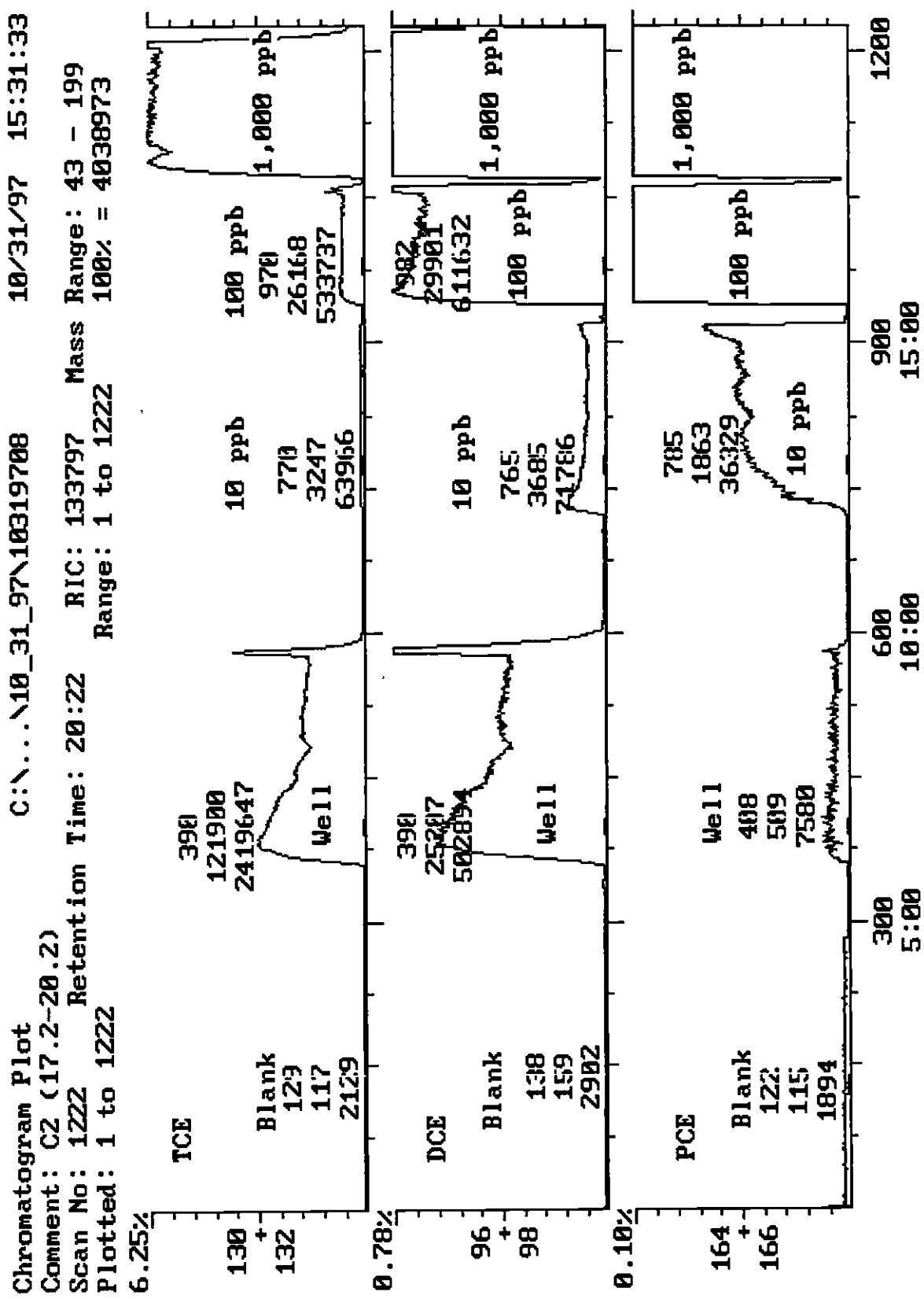


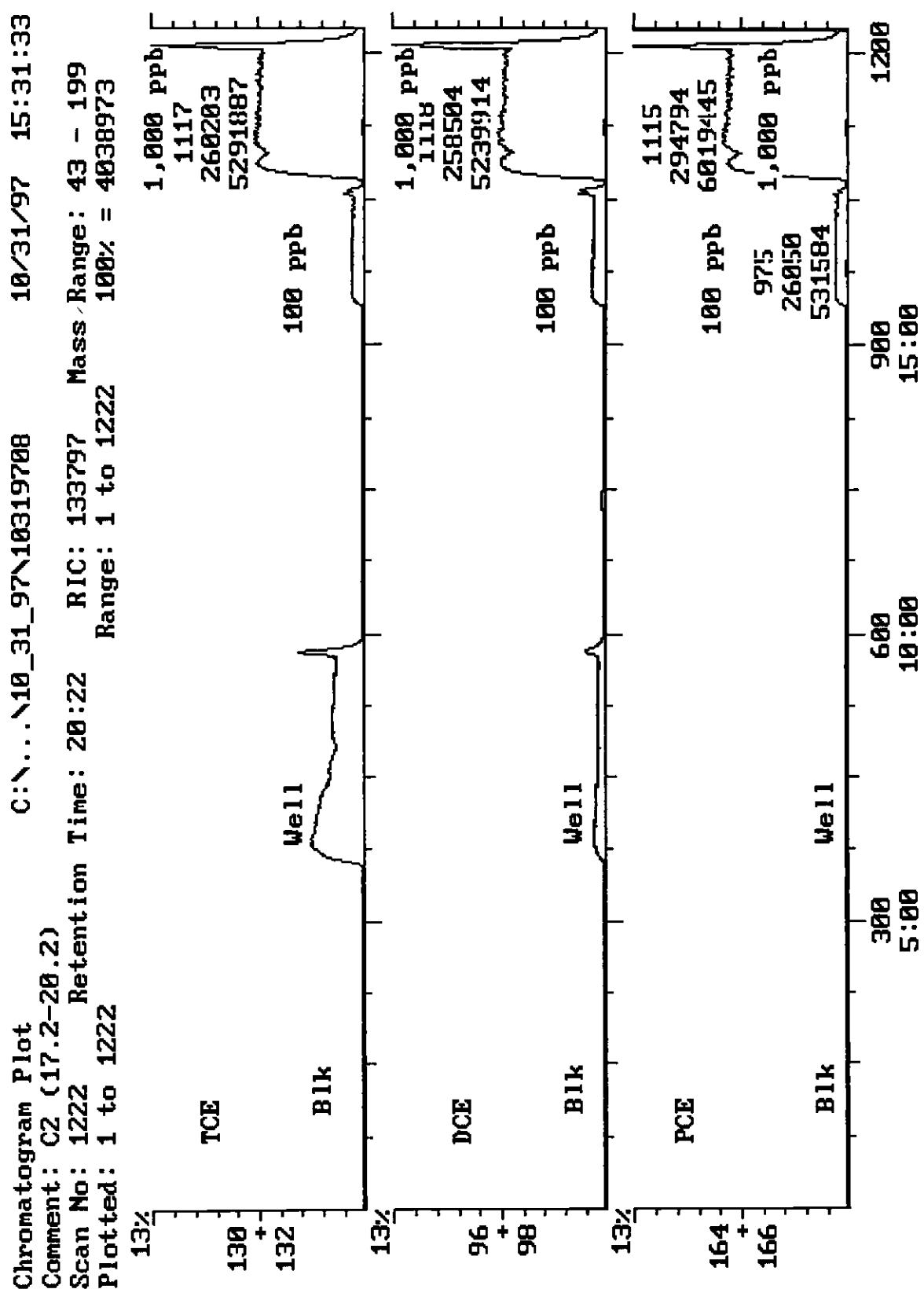


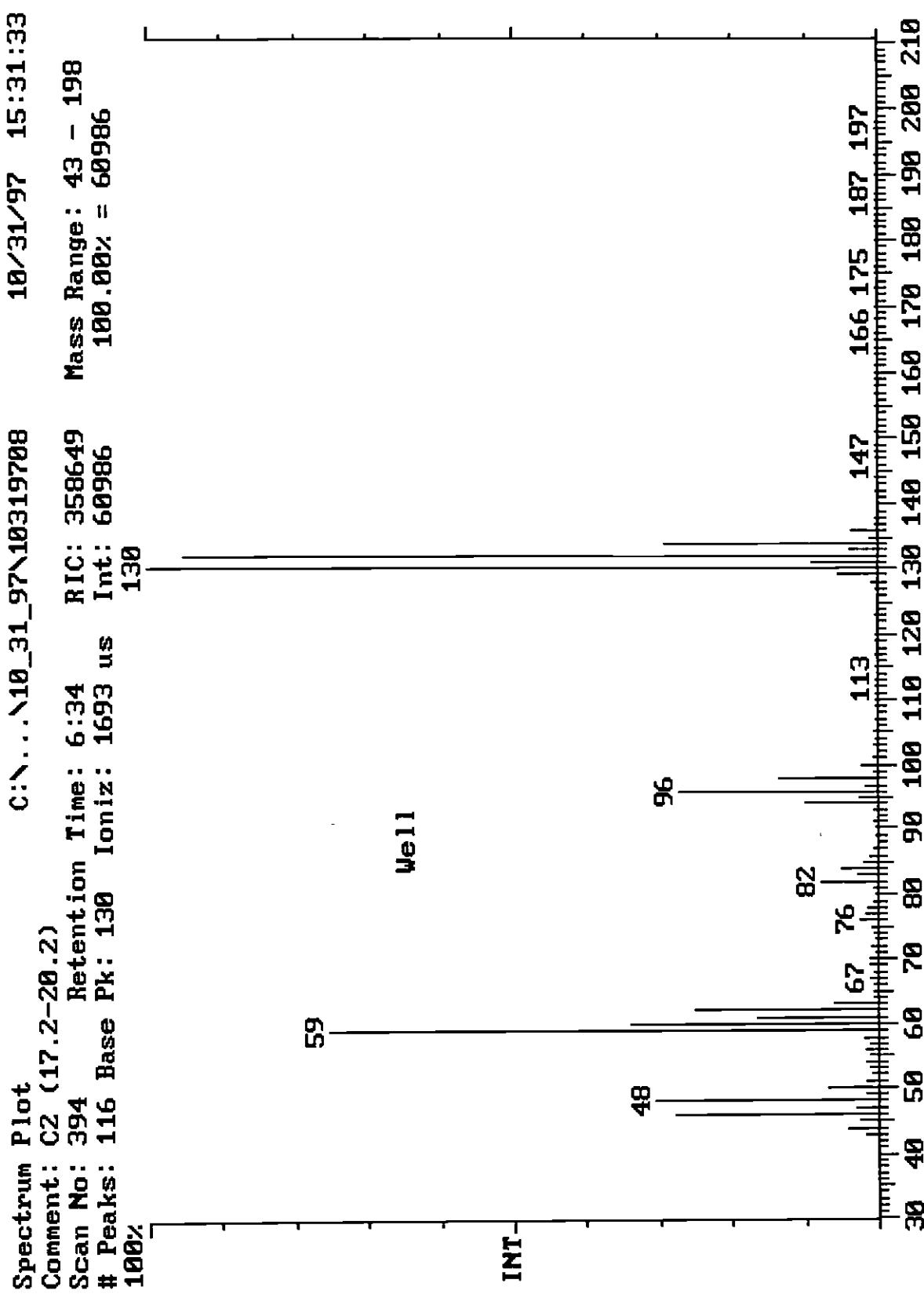
11/01/97 07:34:28
652 94

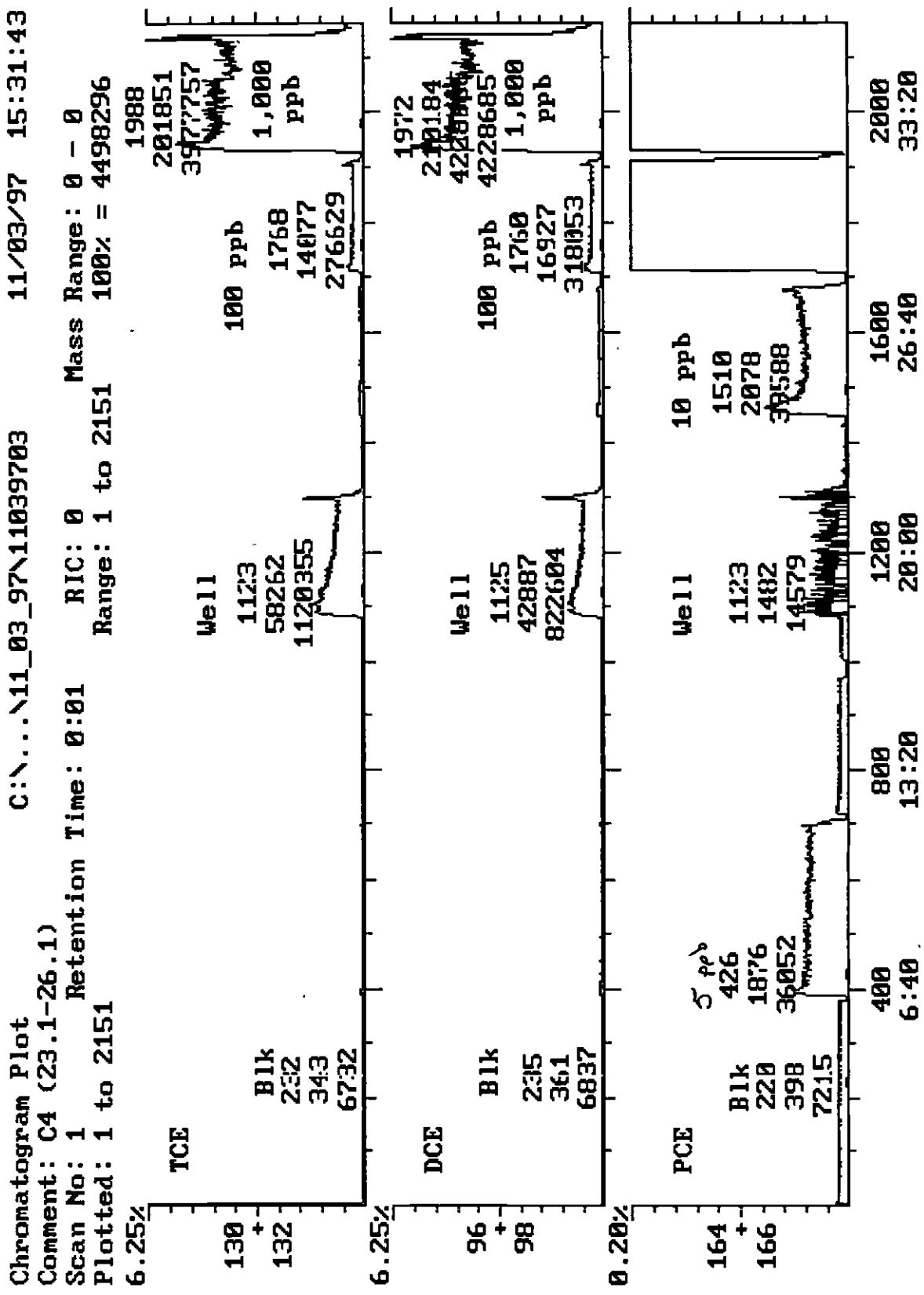
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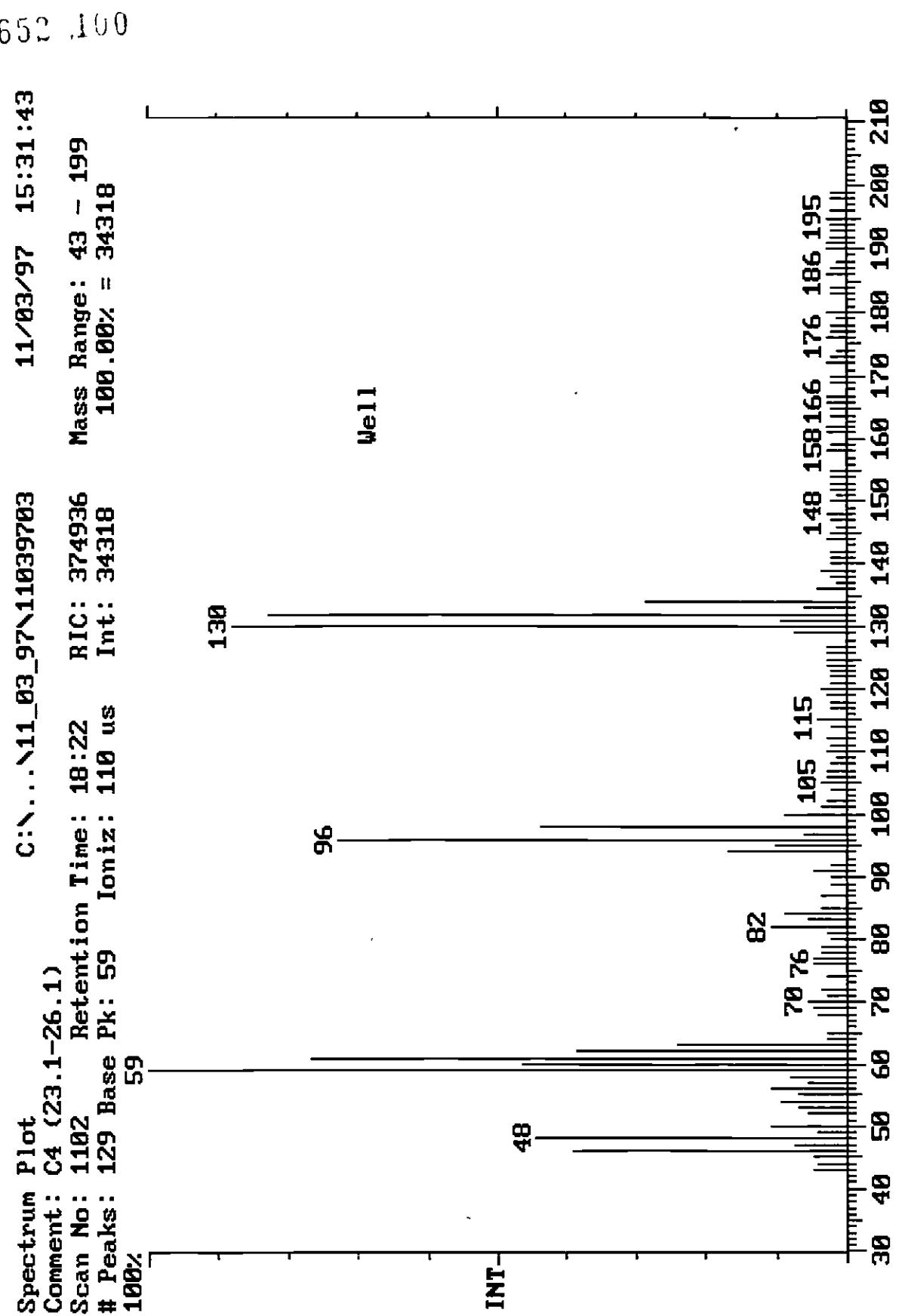




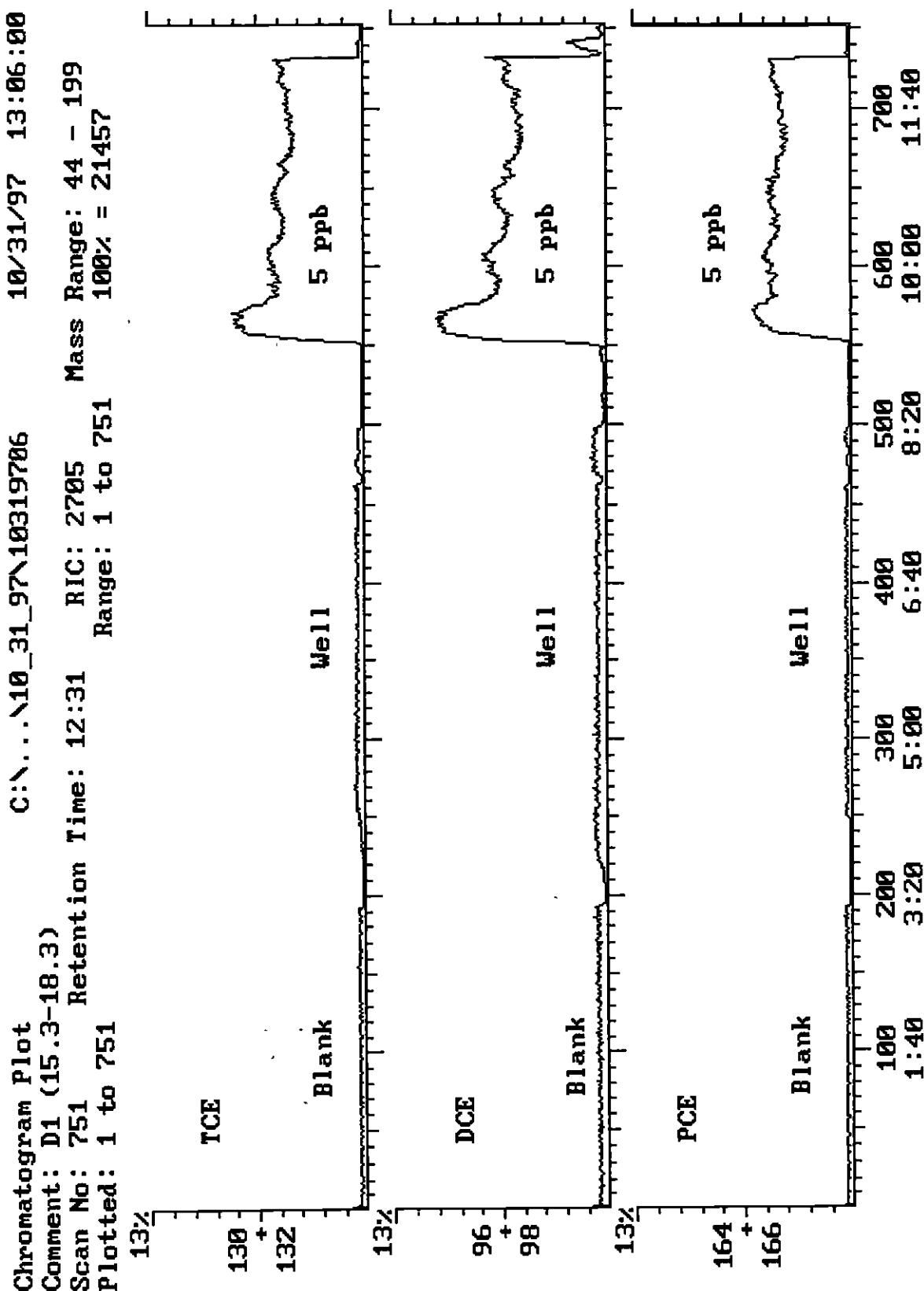


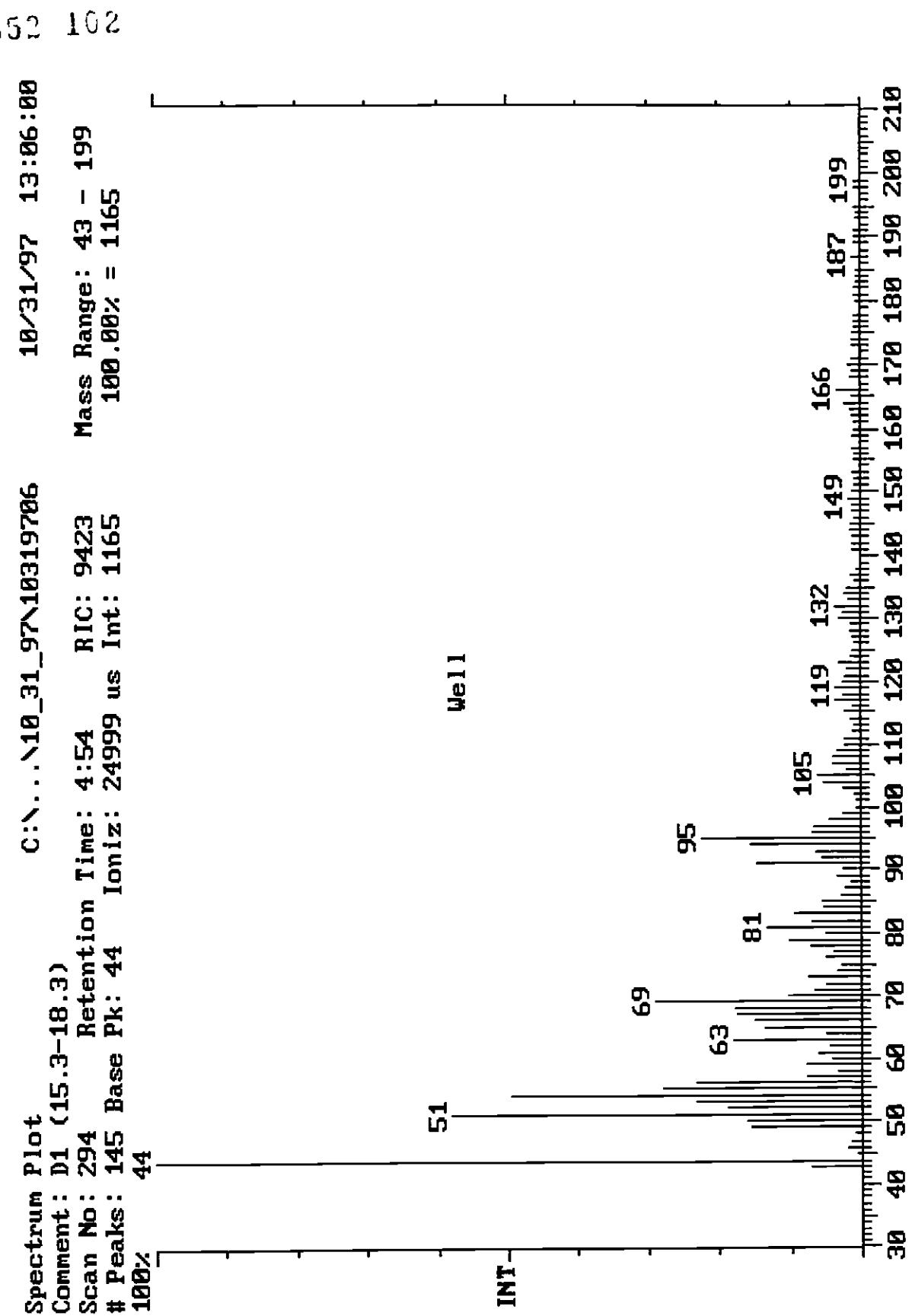


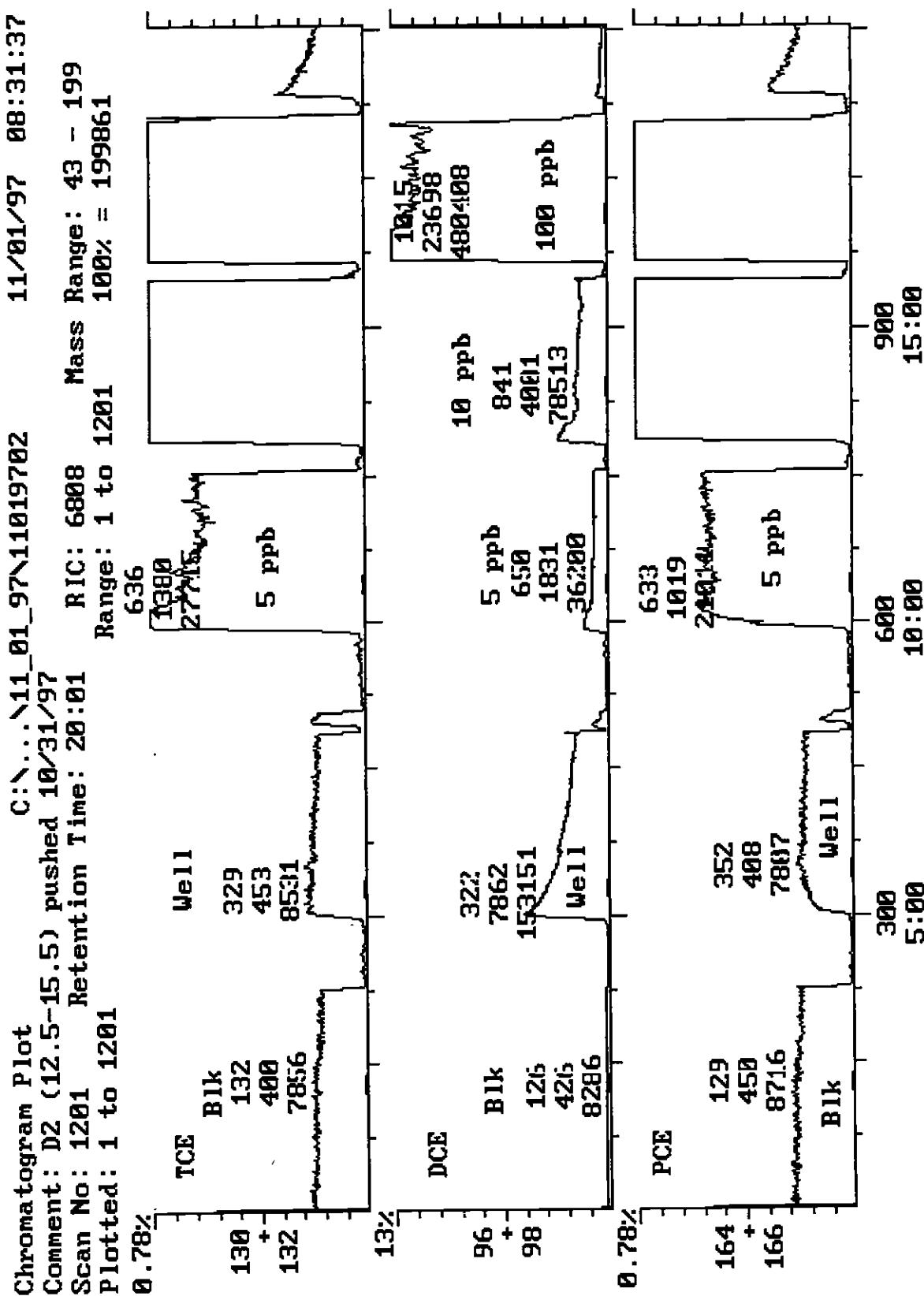
11/03/97 15:31:43 99



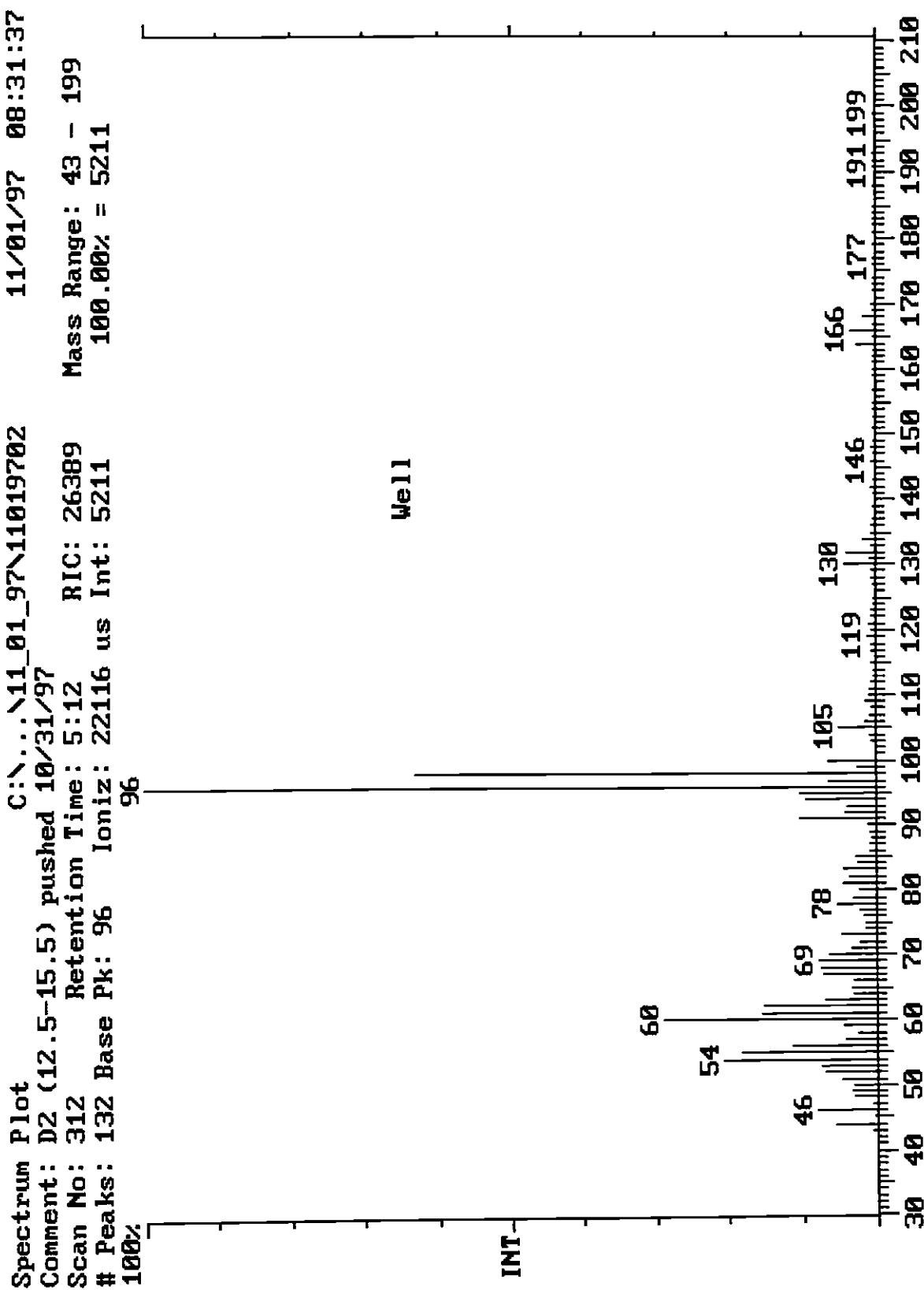
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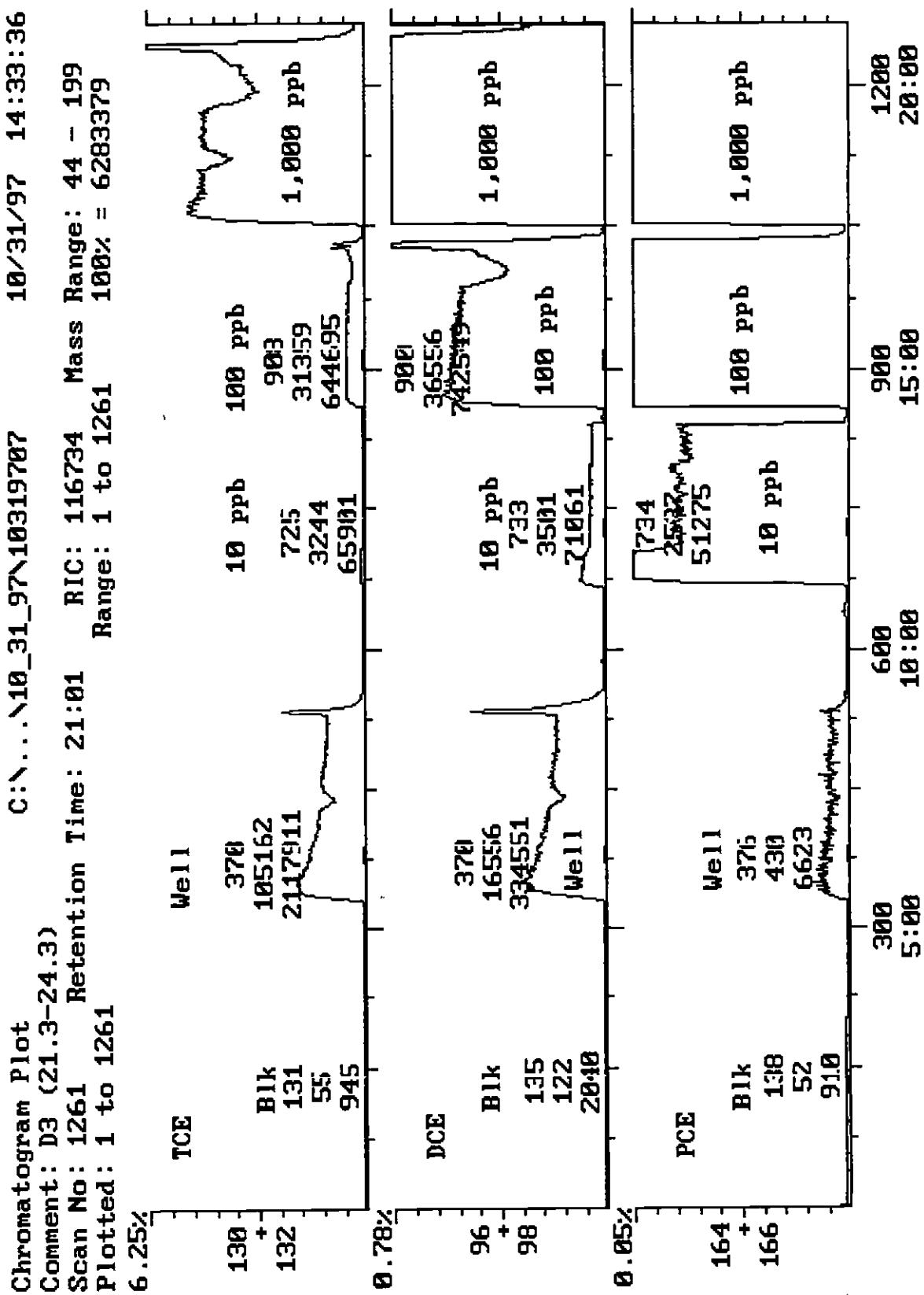




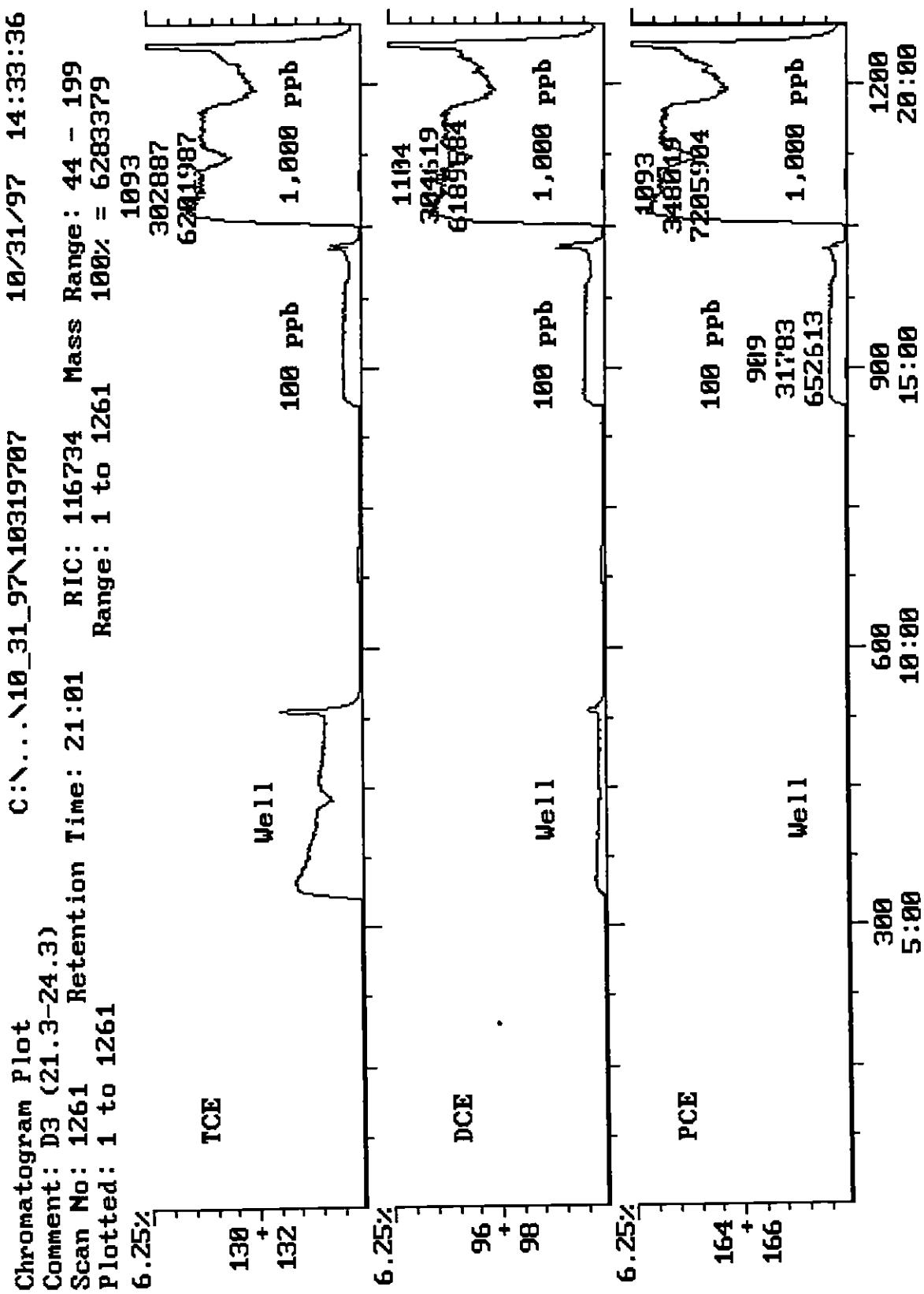
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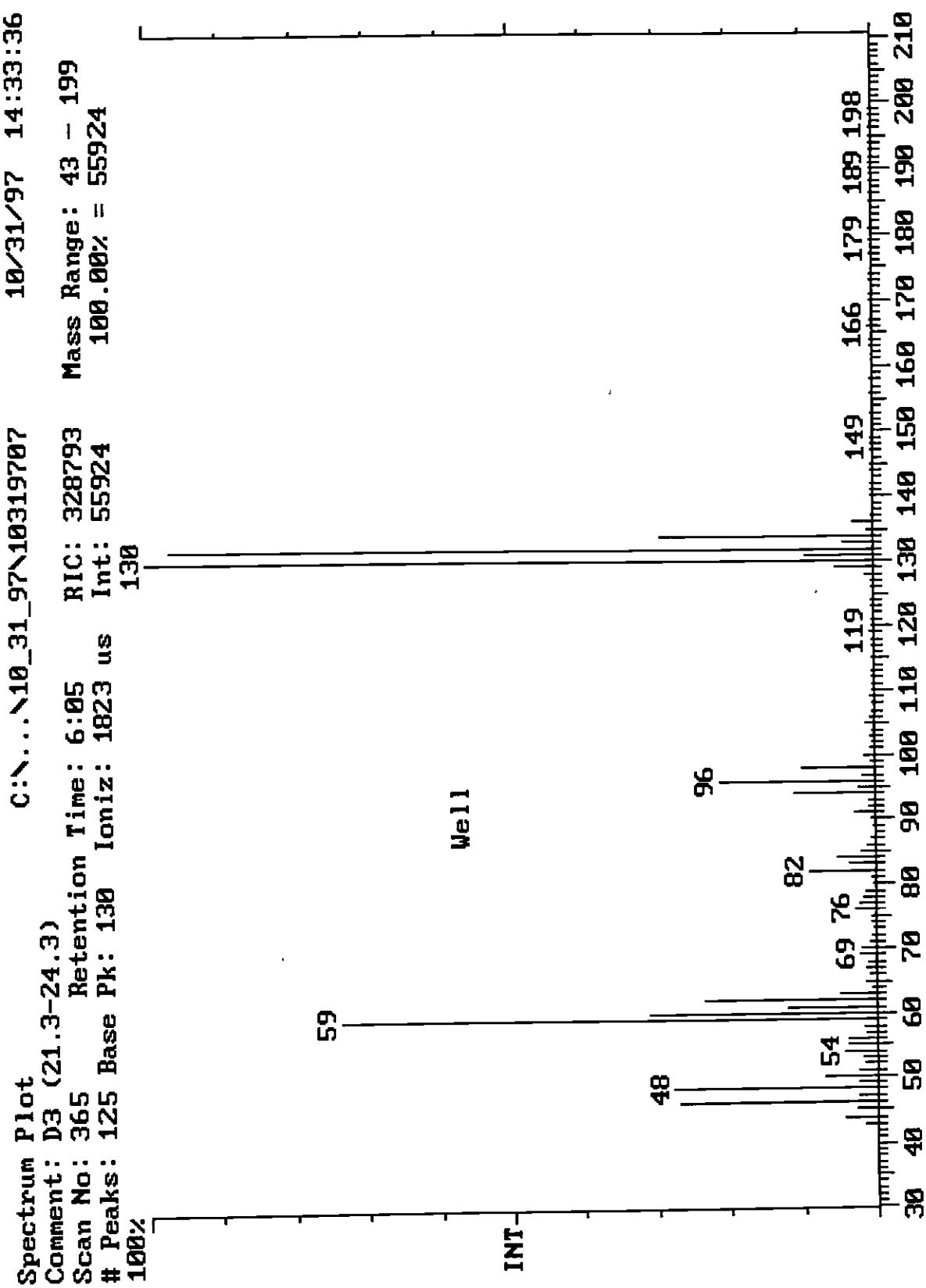


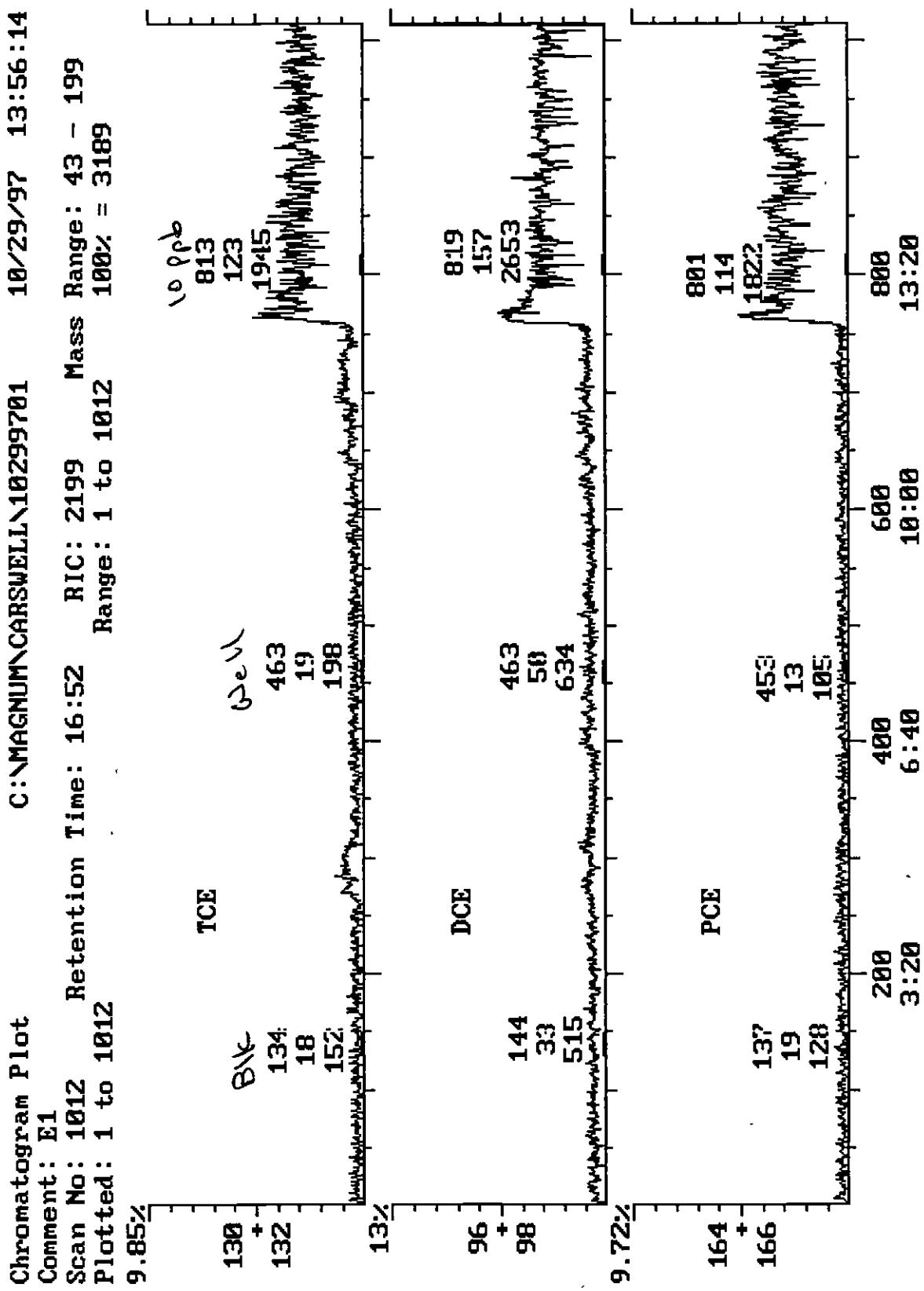
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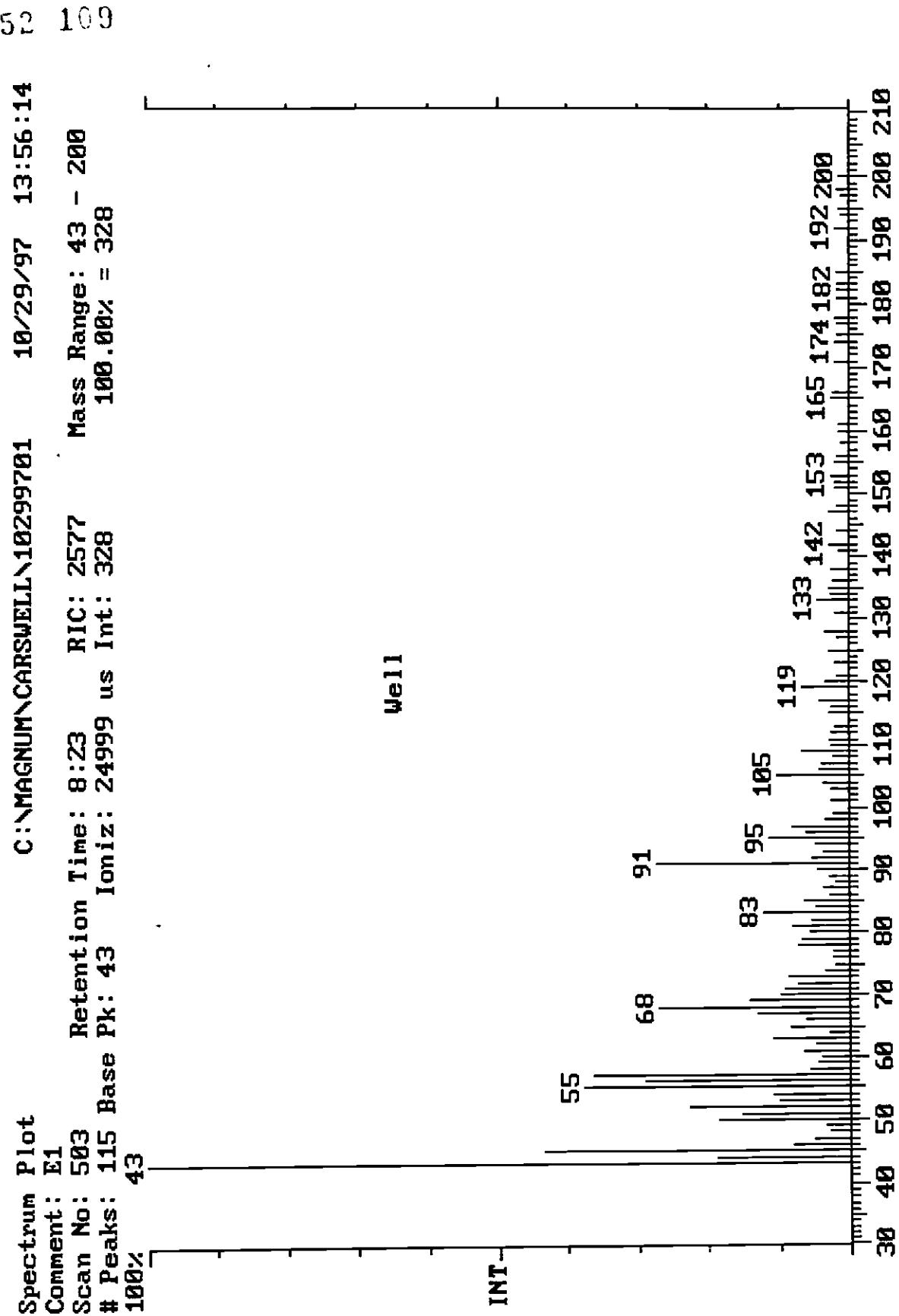
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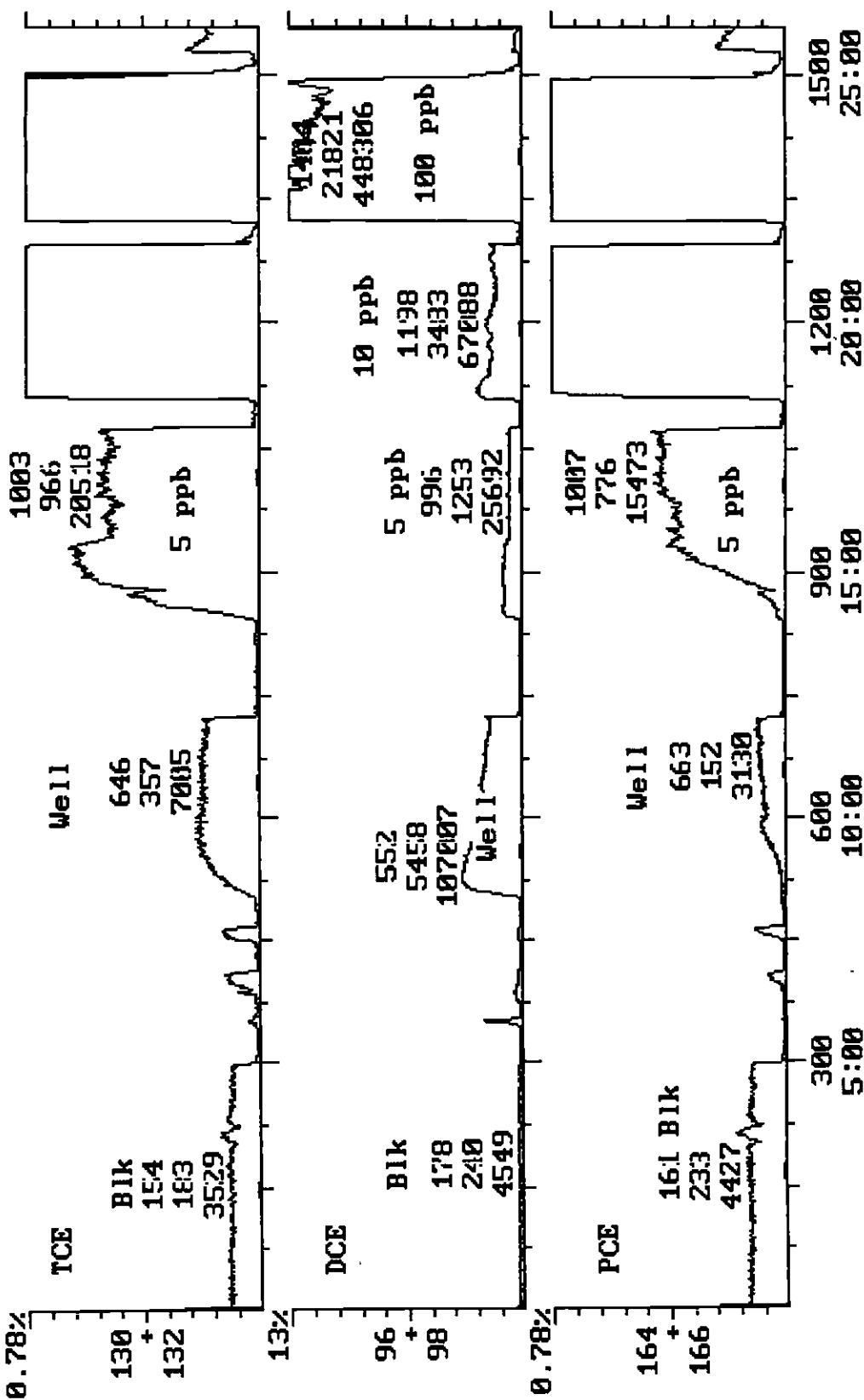




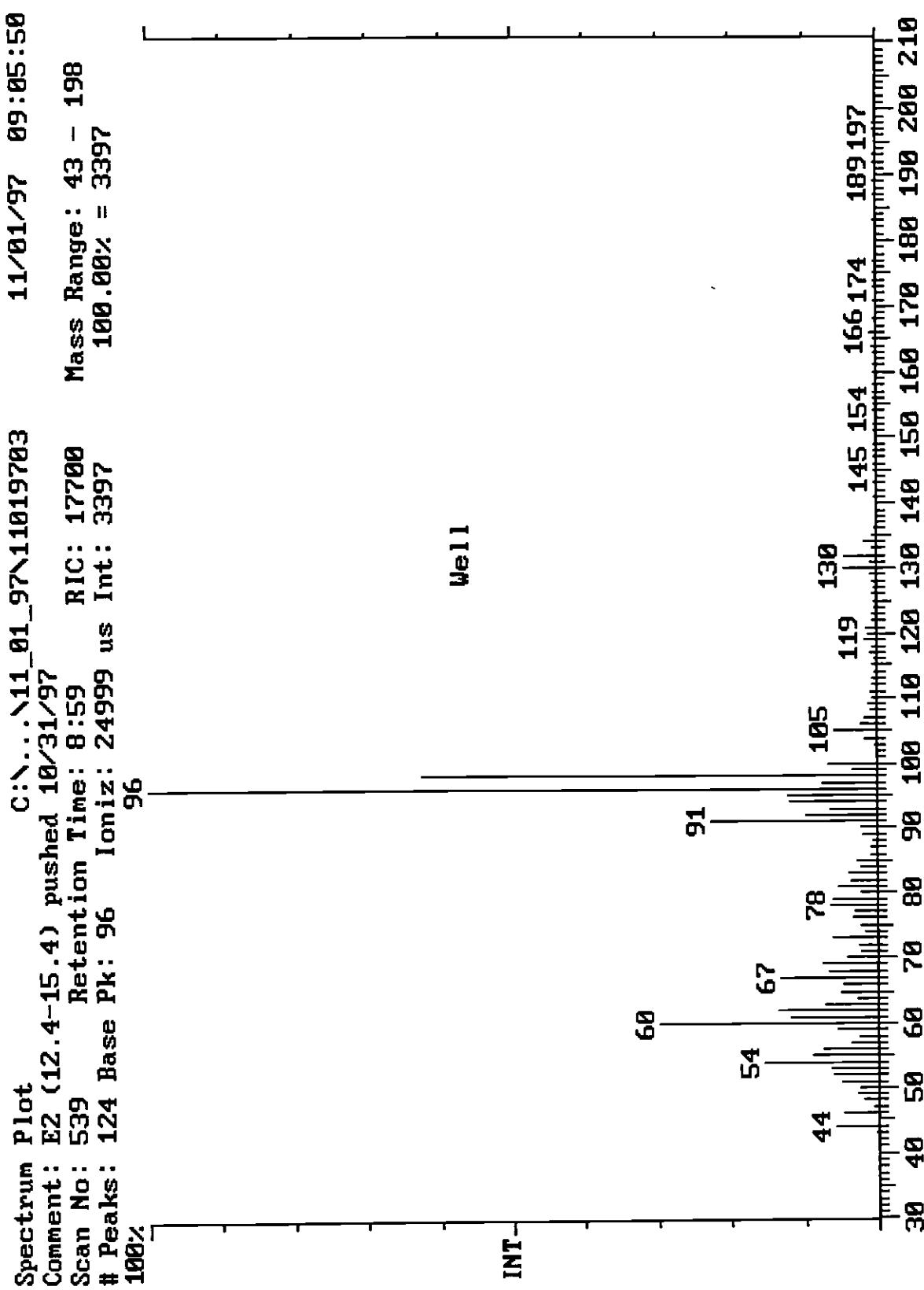
Spectrum Plot
Comment: E1
Scan No: 503 Retention Time: 8:23 RIC: 2577 Mass Range: 43 - 200
Peaks: 115 Base Pk: 43 Ioniz: 24999 us Int: 328 100.00% = 328
100%

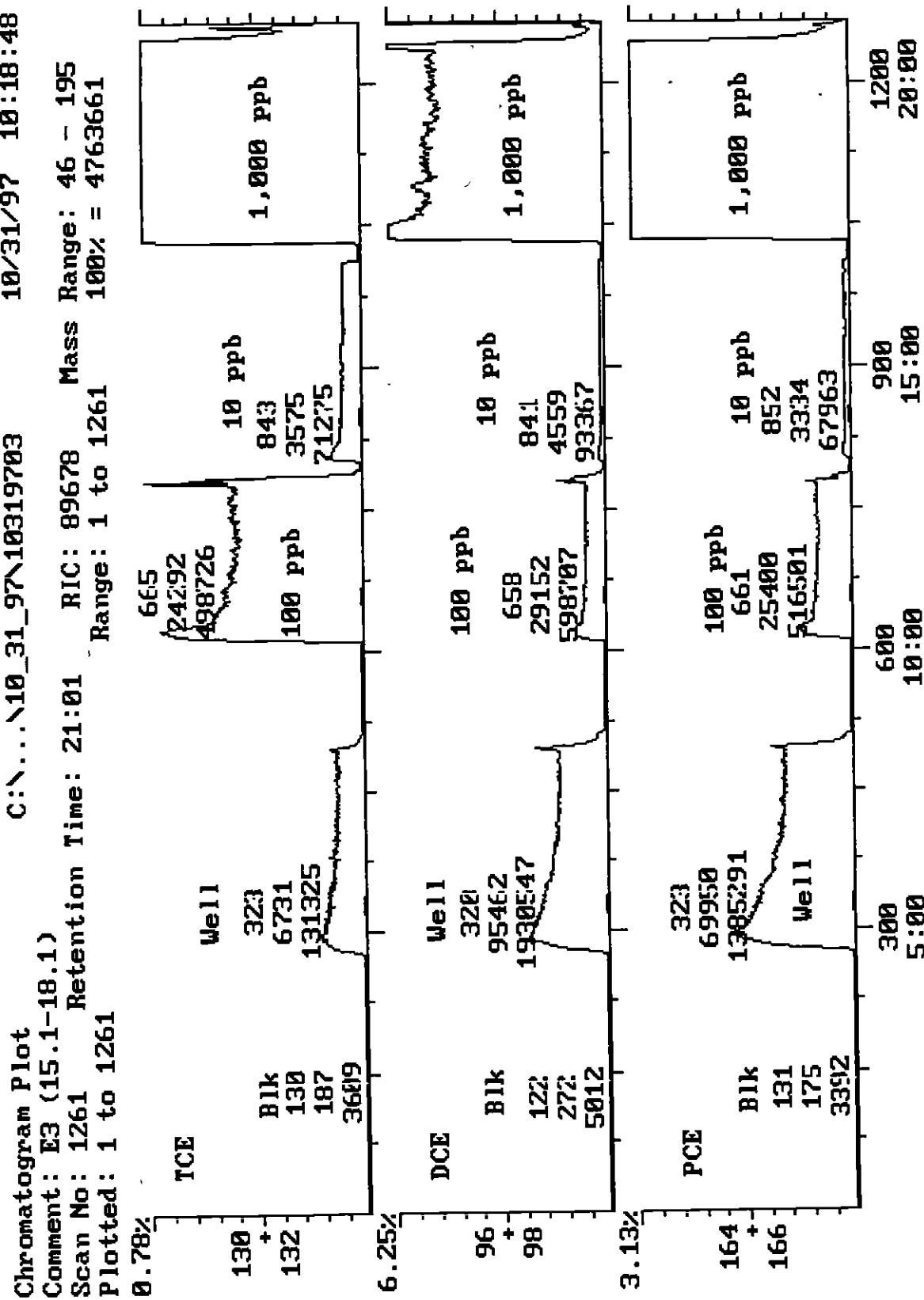


Chromatogram Plot C:\...\11_01_97\11019703 11/01/97 09:05:50
Comment: E2 (12.4-15.4) pushed 10/31/97
Scan No: 1551 Retention Time: 25:51 RIC: 6278 Mass Range: 43 - 199
Plotted: 1 to 1551 Range: 1 to 1551 100% = 177703

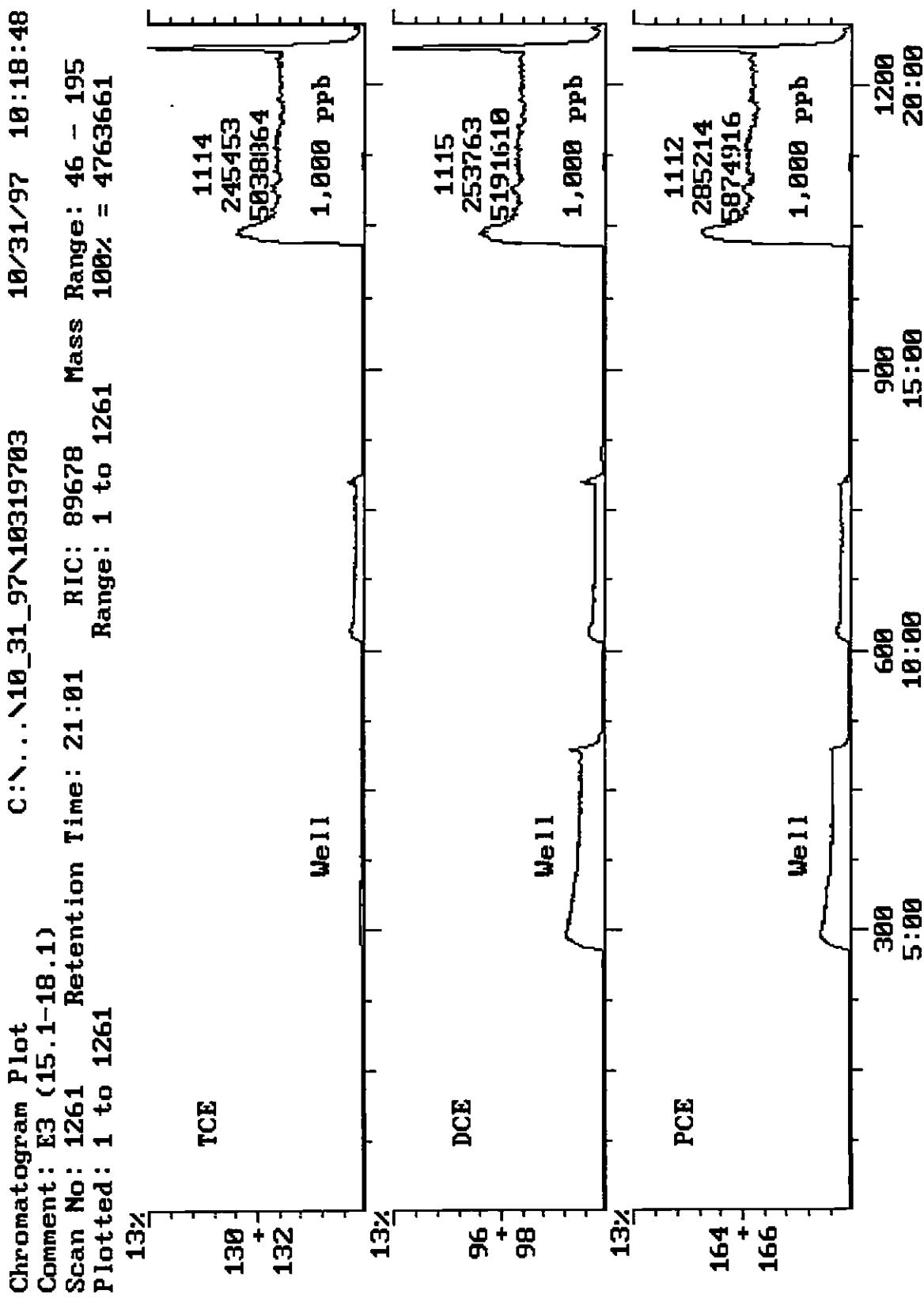


652 111

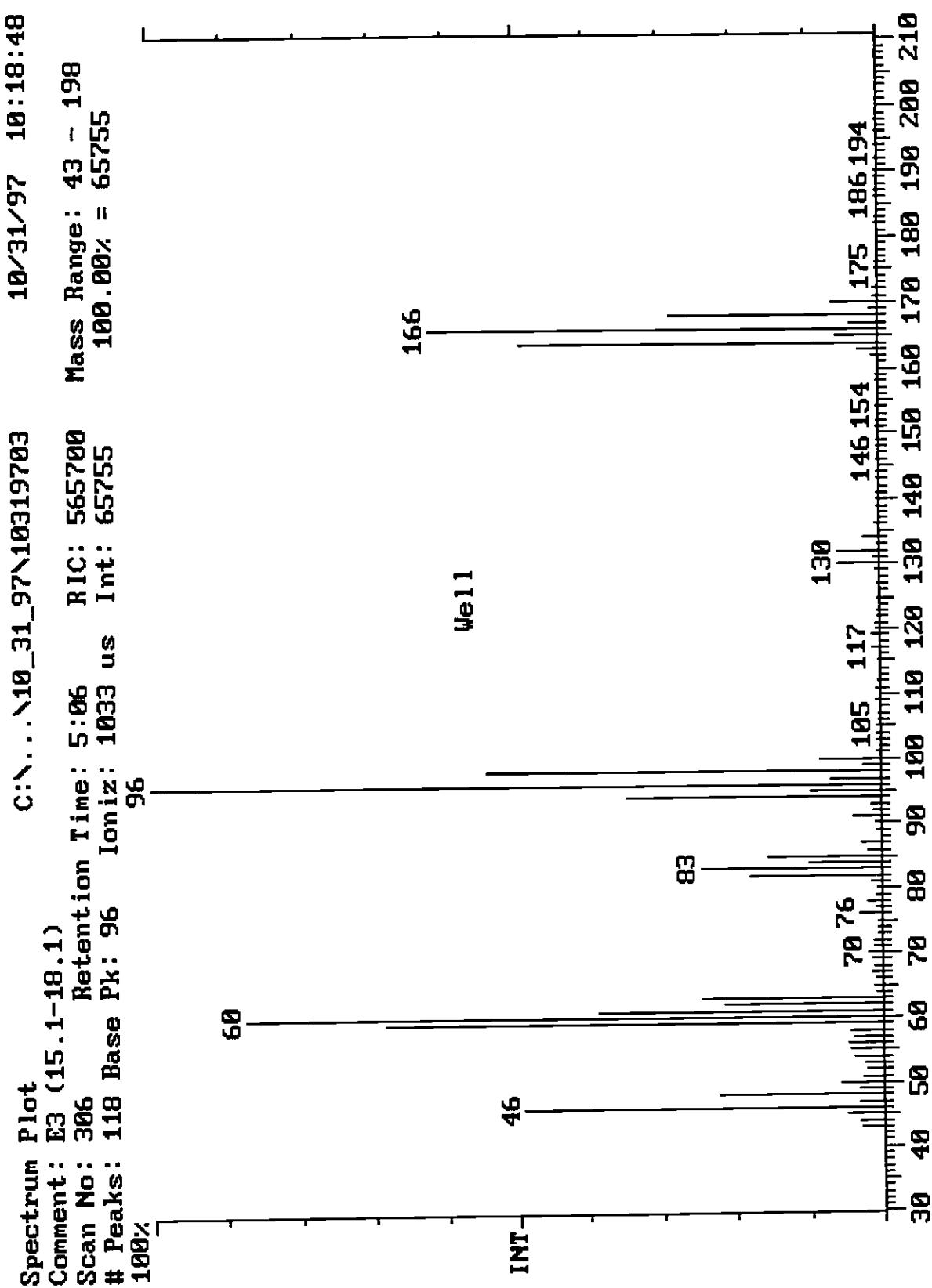




652 113



652 114

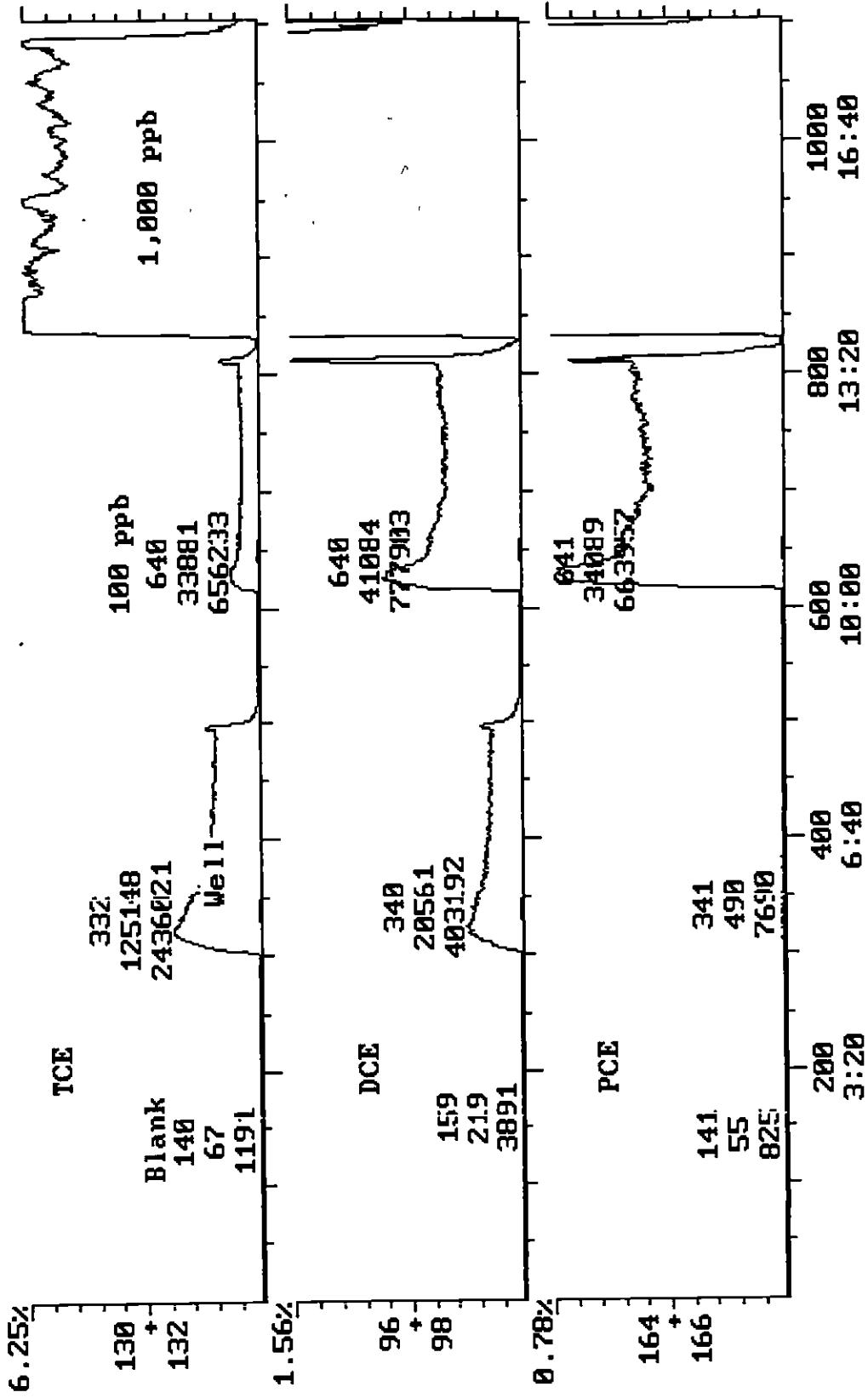


Chromatogram Plot
Comment: E4 (17.3-20.3)
Scan No: 1101 Retention Time: 18:21 RIC: 213898 Mass Range: 45 - 199
Plotted: 1 to 1101 Range: 1 to 1101 100% = 5731335

C:\...\10_31_97\10319702

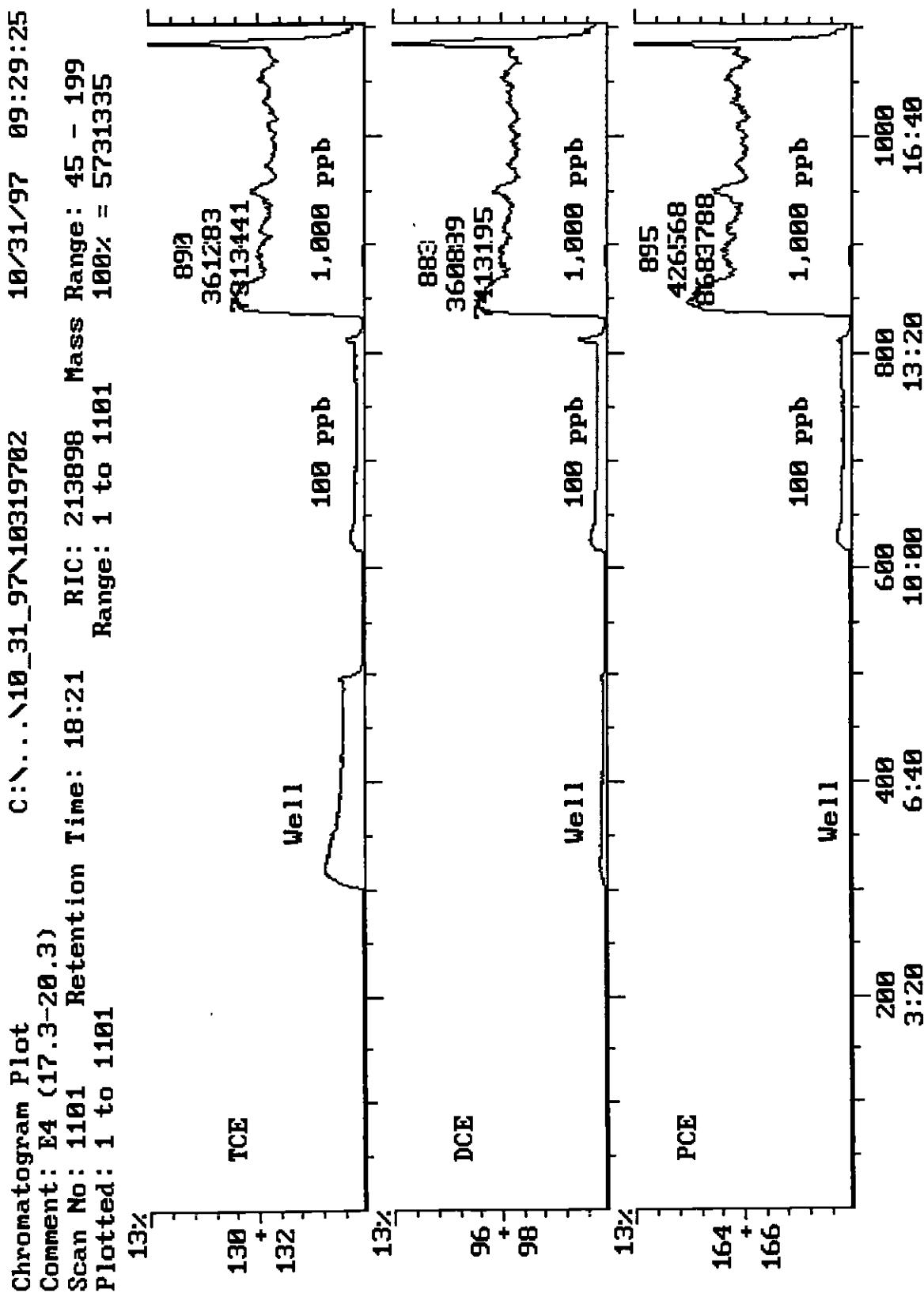
10/31/97 09:29:25

10/31/97 09:29:25

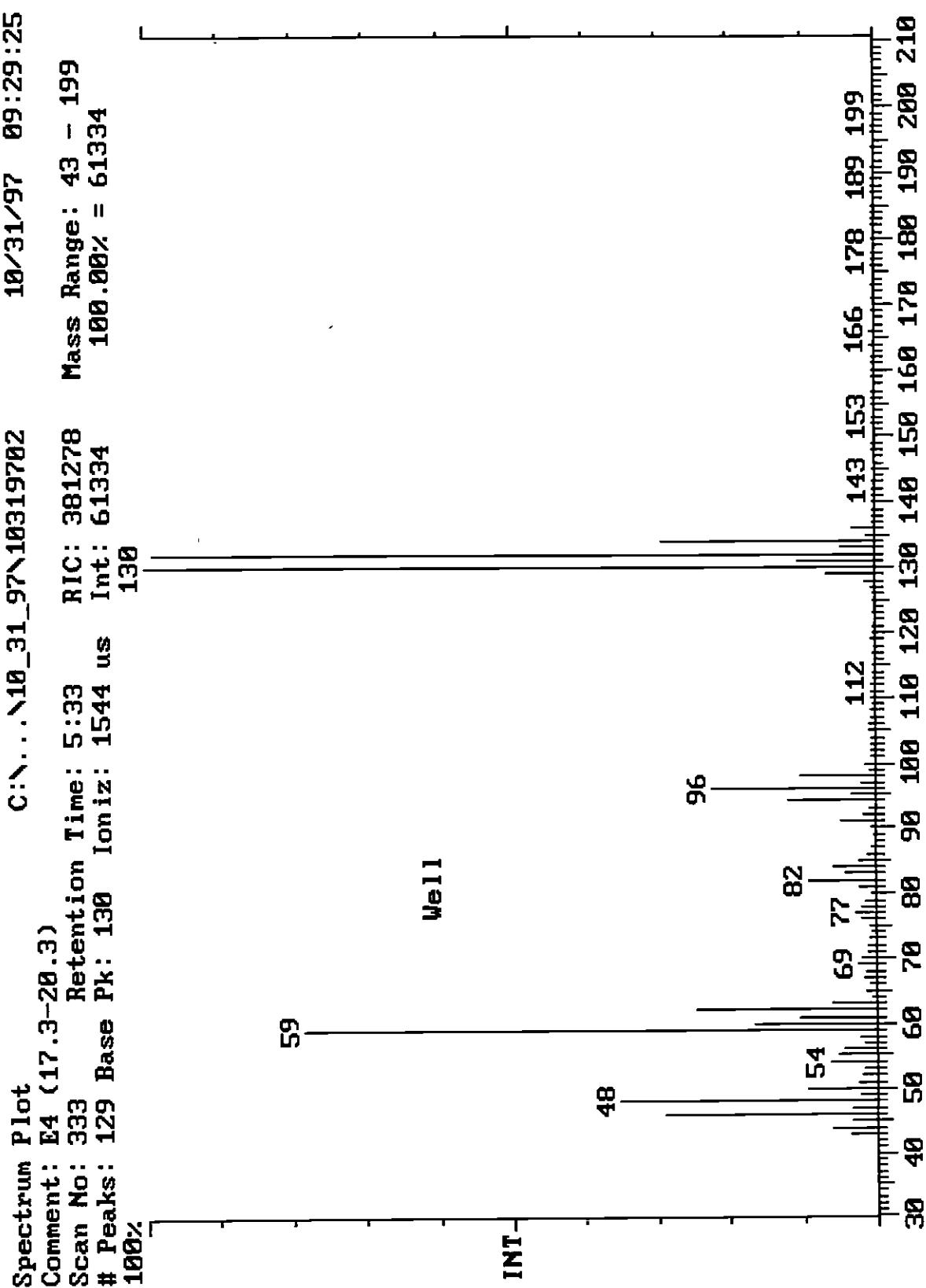


652 115

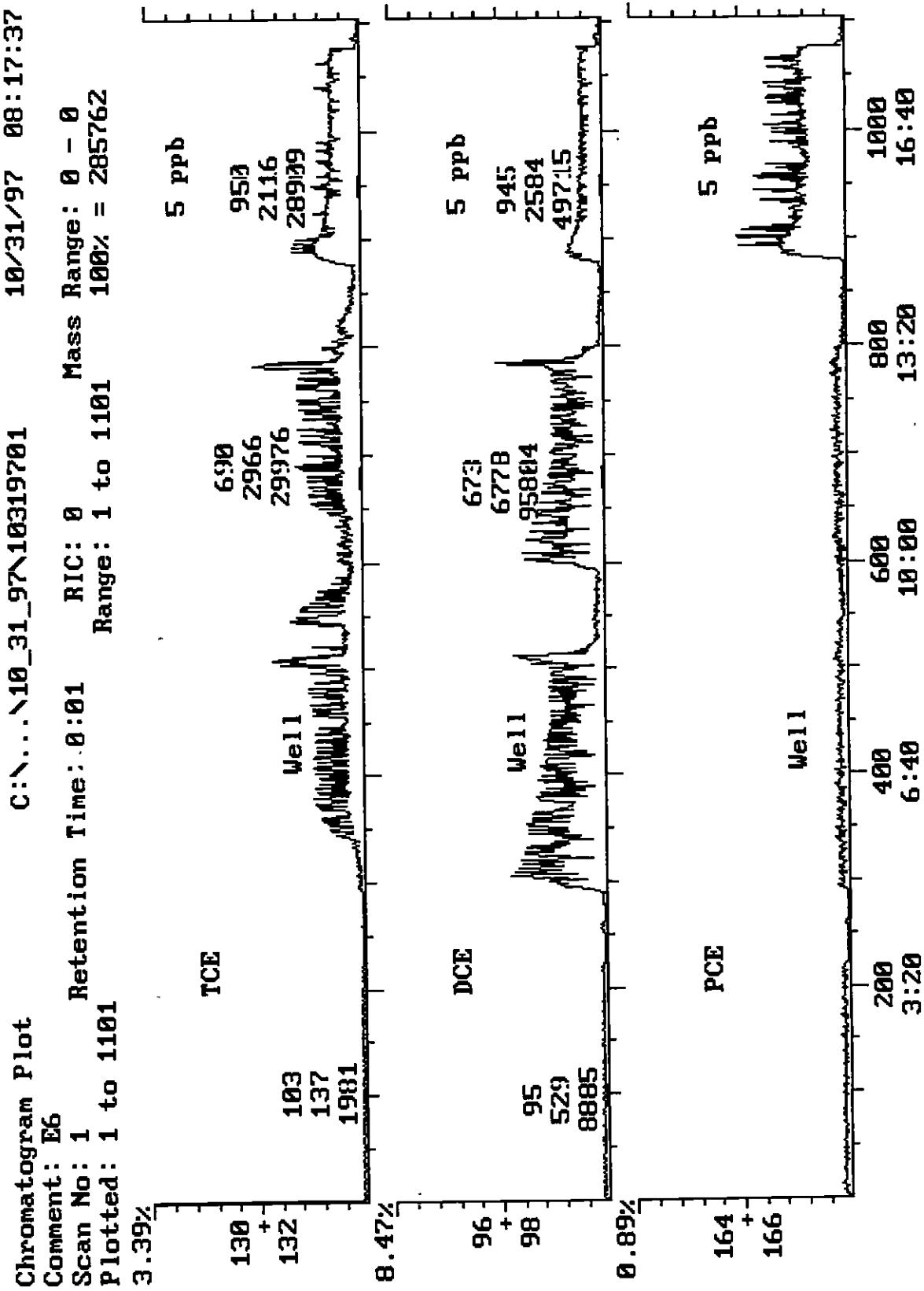
652 116



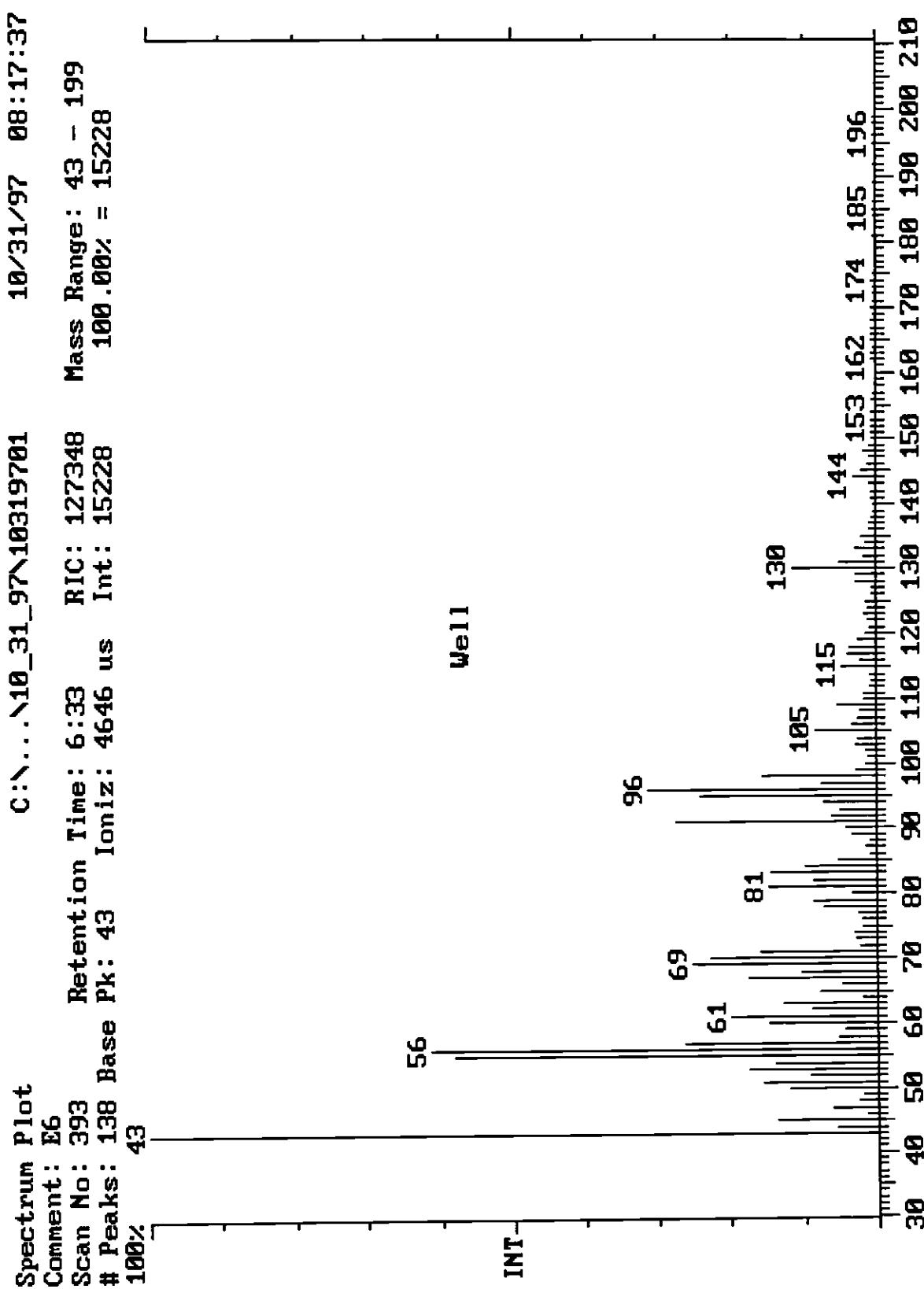
652 117

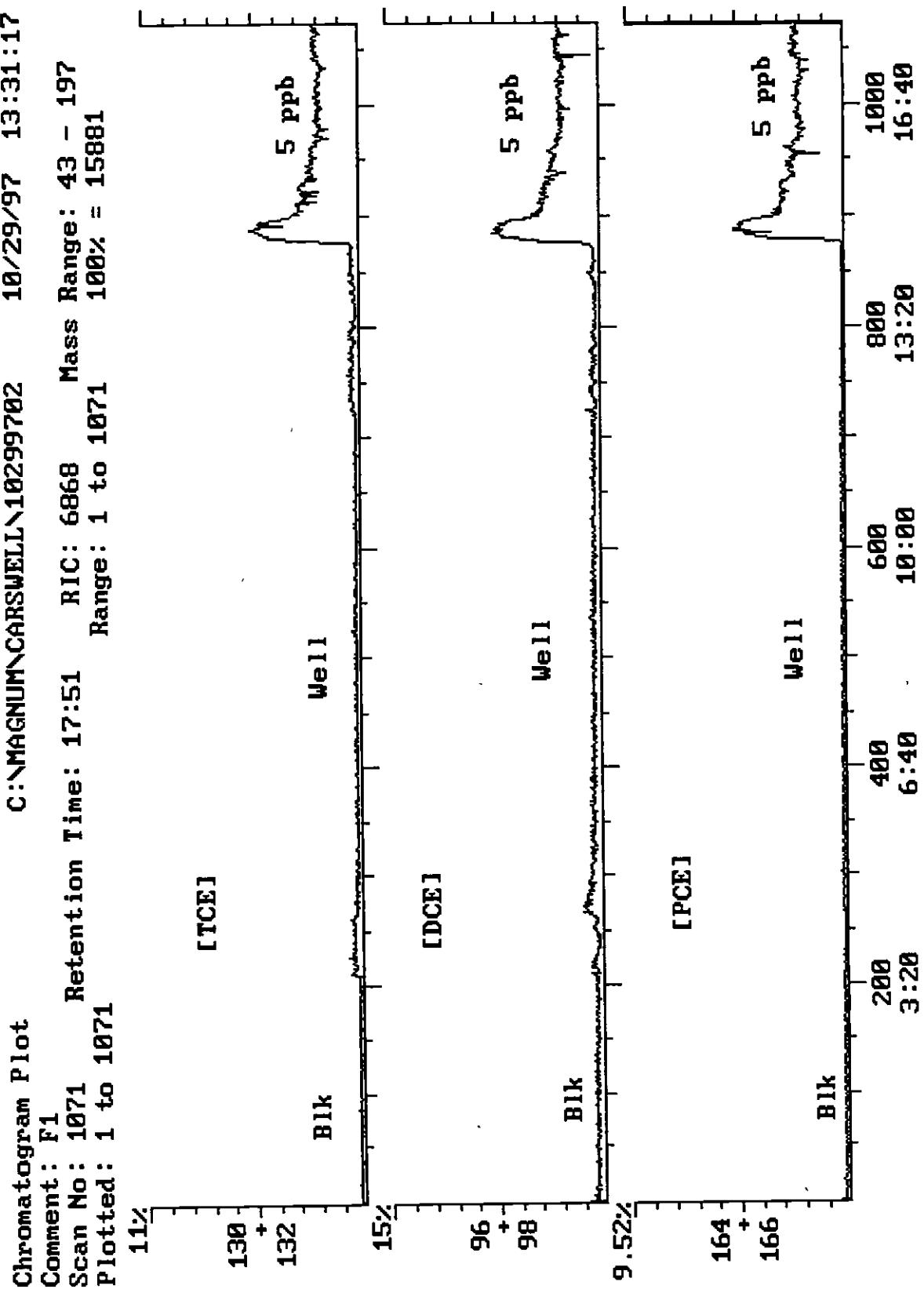


6652-118

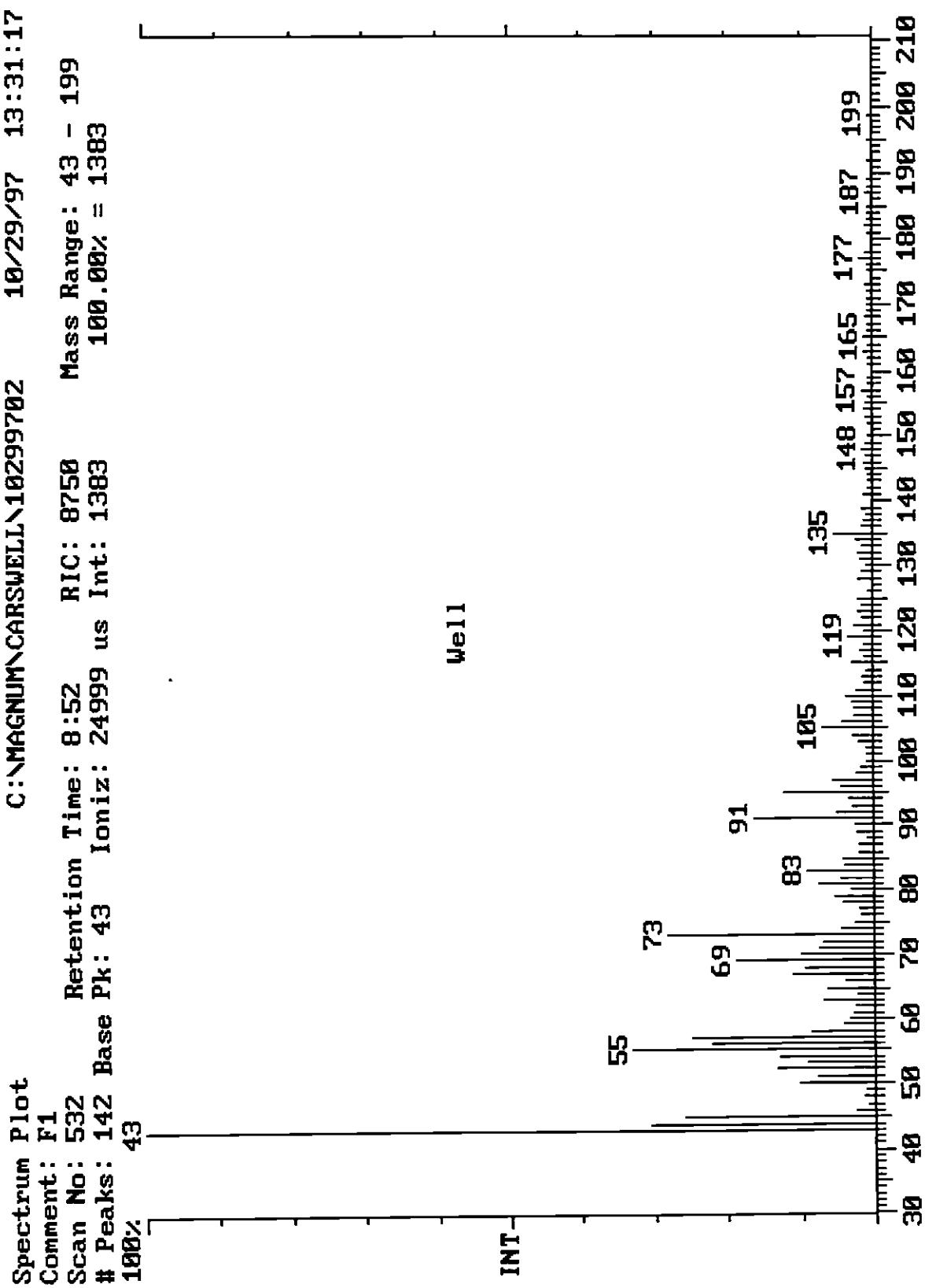


652 119

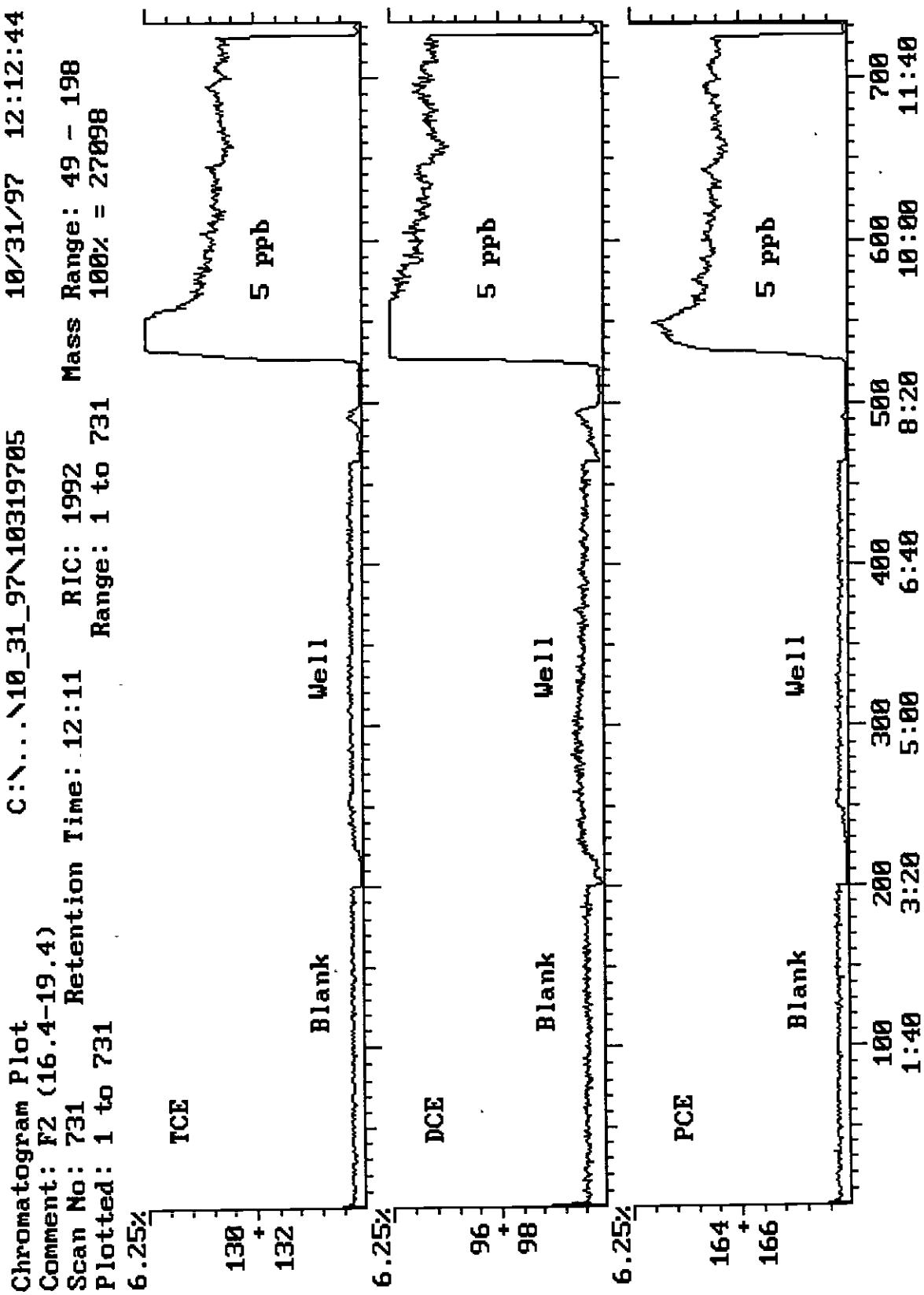




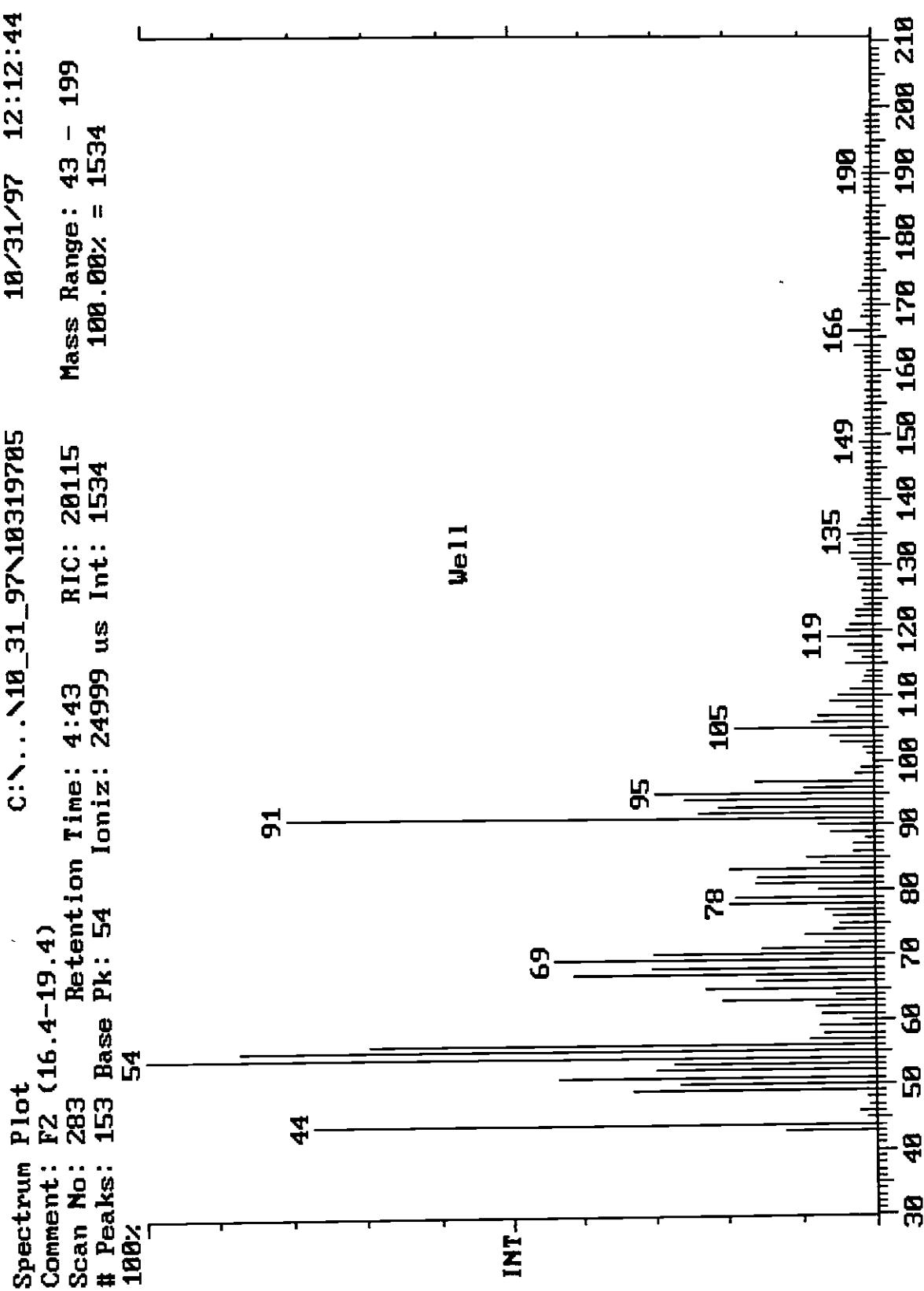
652 121



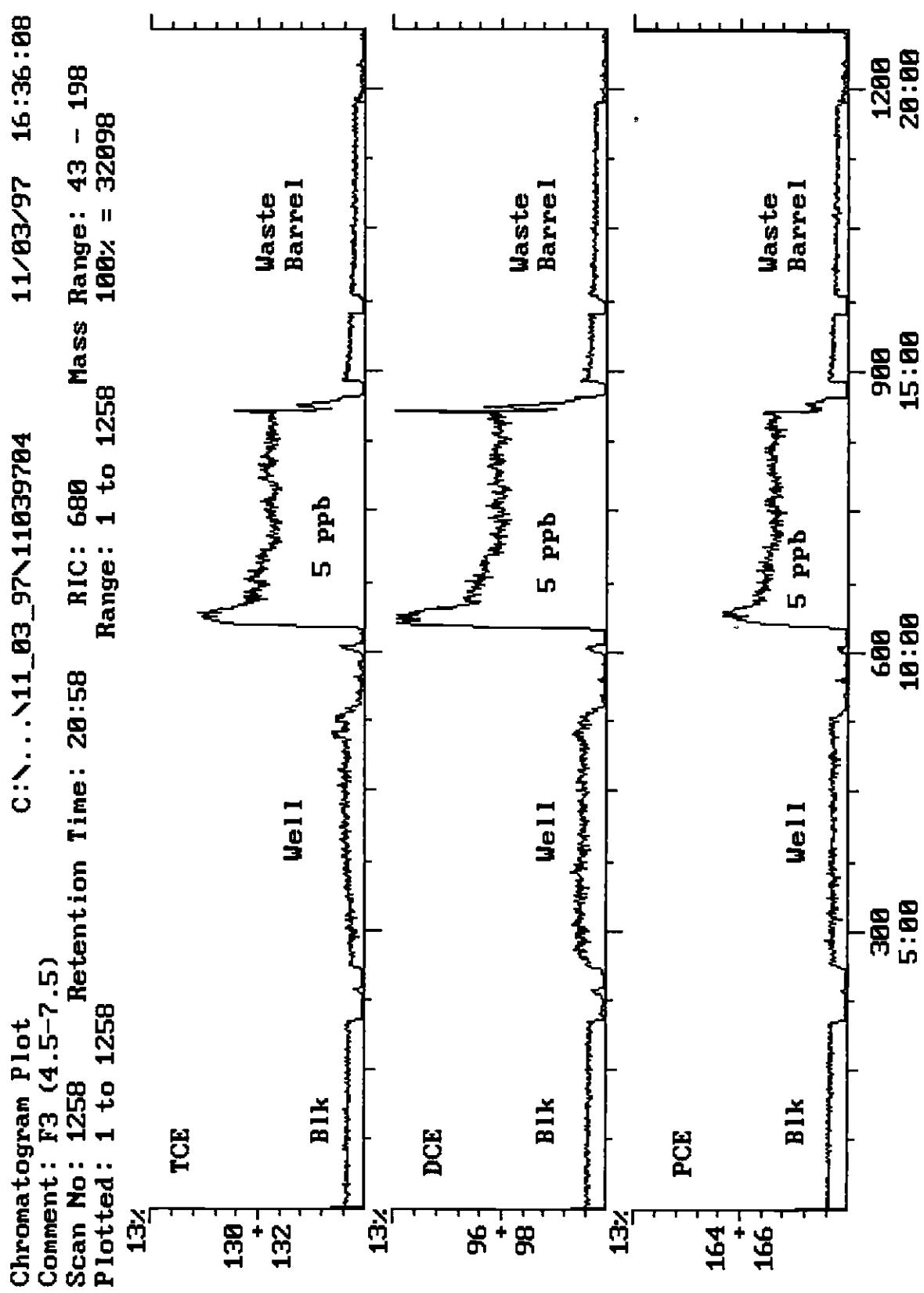
652-122



652 123

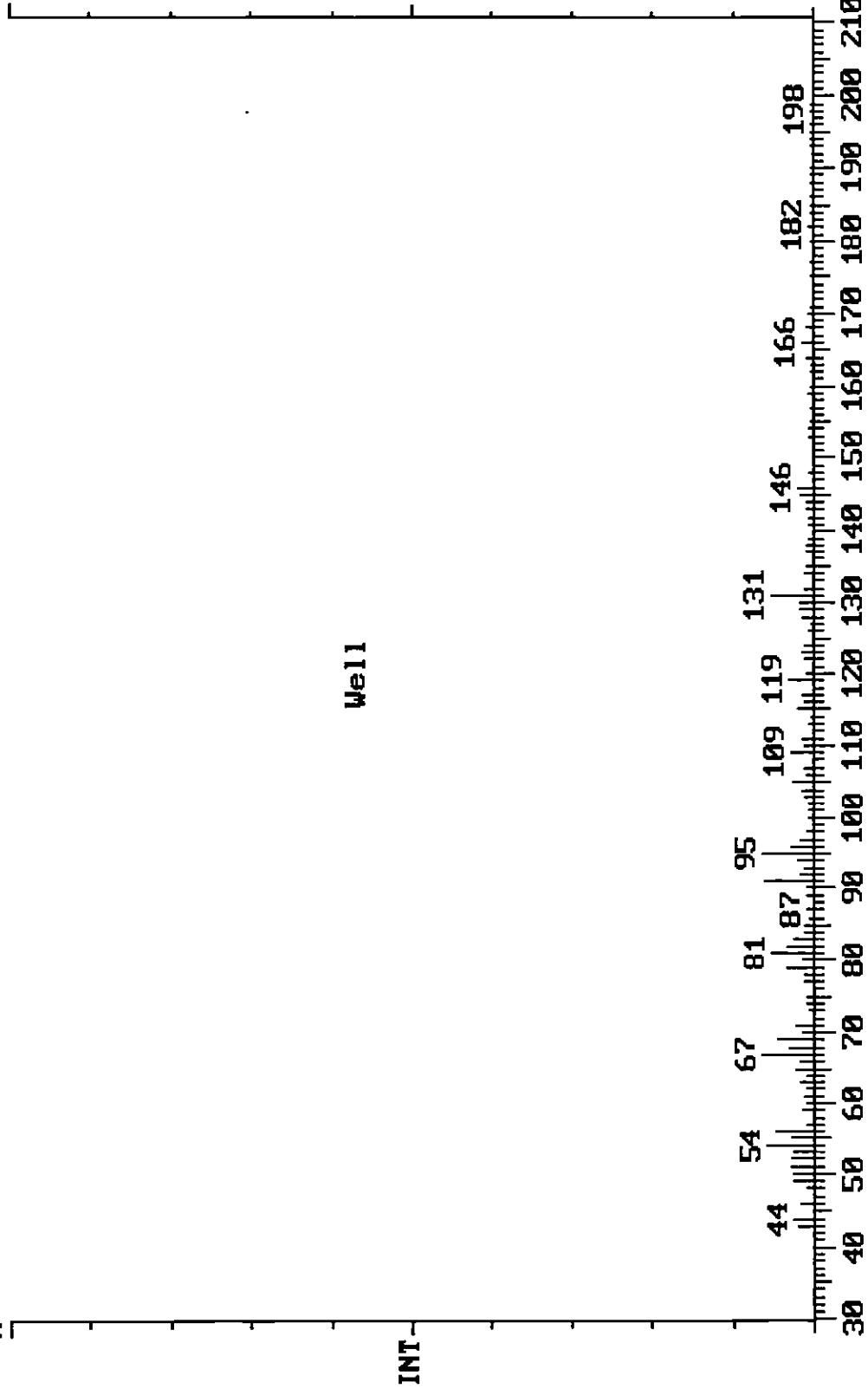


16:52 12/4



652 125

Spectrum Plot C:\...\11_03_97\11039704
Comment: F3 (4.5-7.5)
Scan No: 426 Retention Time: 7:06 RIC: 21362 Mass Range: 43 - 199
Peaks: 119 Base Pk: 95 Ioniz: 2116 us Int: 862 1600.00% = 13792
***%



Chromatogram Plot
Comment: F3 (4.5-7.5)
Scan No.: 1258 Retention Time: 20:58 RIC: 680 Mass Range: 43 - 198
Plotted: 1 to 1258 Range: 1 to 1258 100 μ = 32098

C:\...\11_03_97\11039704

11/03/97 16:36:08

Chloroform

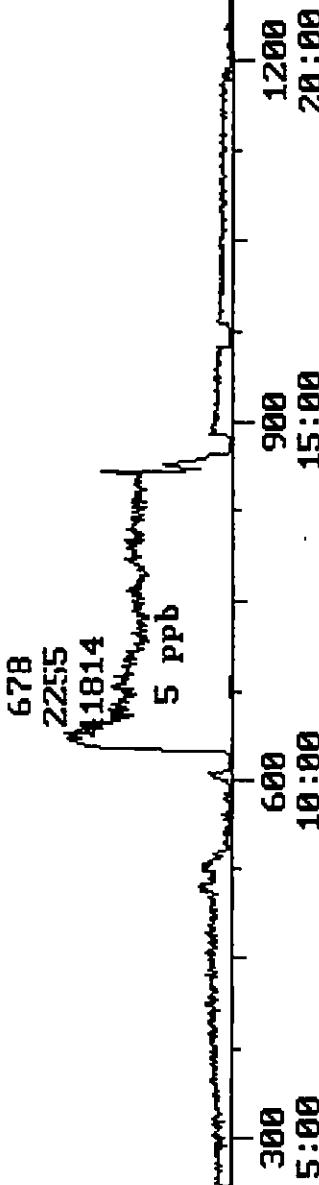
83
+
85
25%

Waste Barrel

1022
1693
335:5

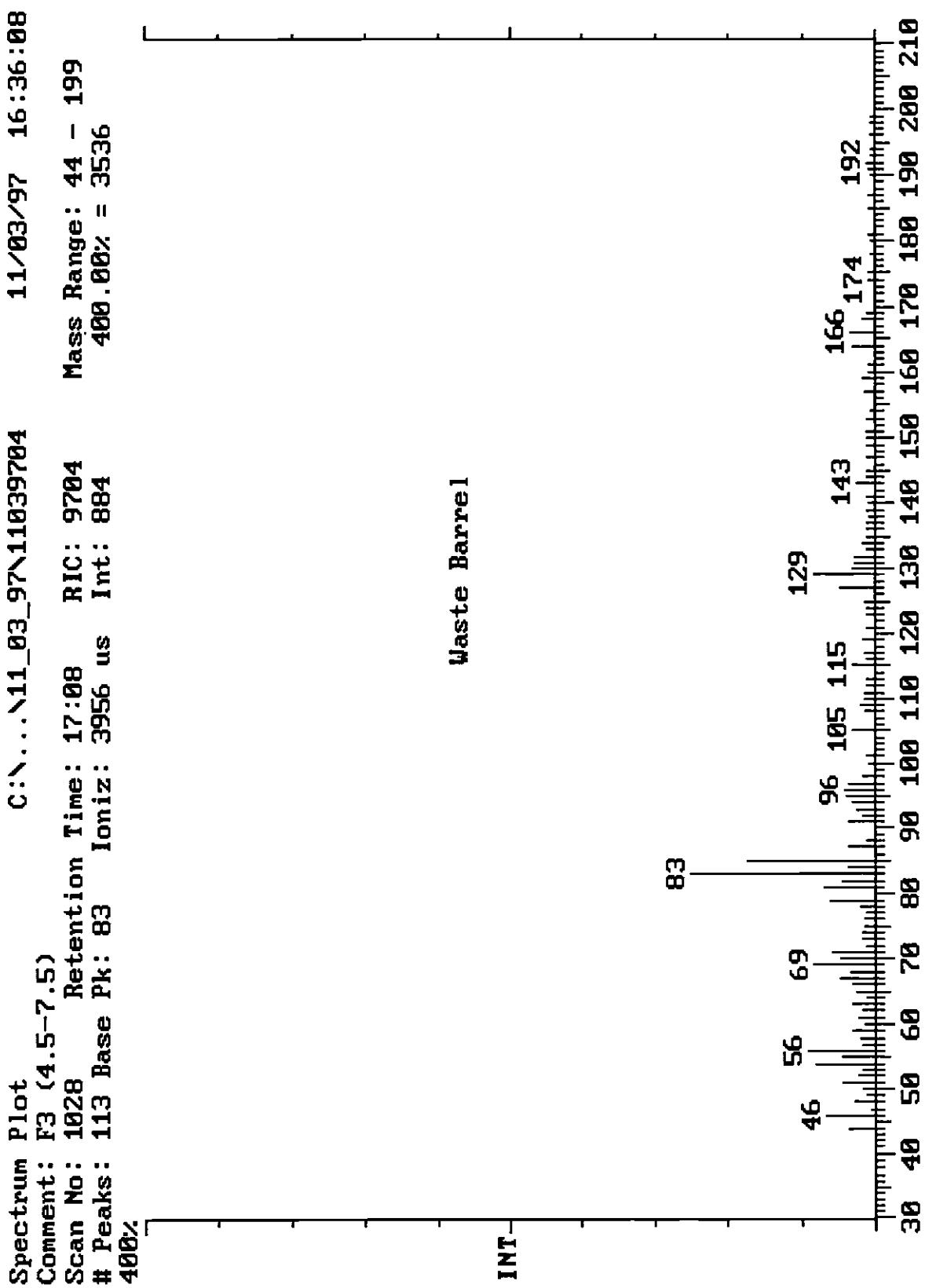
Trichloroethylene

130
+
132



652, 126

652 127



TAB

APPENDIX C
SOIL BORING / MONITOR WELL INSTALLATION DATA

TAB

C-1 SOIL BORING LOGS

PROJECT NUMBER 138681 A2.03				BORING NUMBER WCHMHTA001	JCL S OF 2 SHEET 1 OF 2	
SOIL BORING LOG						
PROJECT <u>NAS Fort Worth JRB AOC 2 RFI</u>				LOCATION <u>West of Active, North of Lockheed South</u>		
ELEVATION <u>639.57 ft</u>				DRILLING CONTRACTOR <u>Total Support Services, Inc. / Dallas</u>		
DRILLING METHOD AND EQUIPMENT <u>Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS</u>						
WATER LEVEL AND DATE <u>26.93 ft</u>				START <u>11/20/97 1055</u>	FINISH <u>11/20/97 1535</u>	
LOGGER <u>M. Wilson</u>						
DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'					Drilled out SANDY CLAY , dark brown, moist	<i>Soil cores were screened and only detections are listed</i> OVM = 1.0 ppm OVM = 1.0 ppm Headspace = 2.2 ppm
	2-4	SS-1	12	7-17-24	SANDY SILT WITH GRAVEL (ML) , dry, stiff, weathered caliche, reddish brown	OVM = 1.7 ppm Headspace = 2.5 ppm Sample 6-8 ft, 1200, AHA029
5'	4-6	SS-2	16	18-23-27	SANDY SILT WITH GRAVEL (ML) , as above	OVM = 1.0 ppm
	6-8	SS-3	18	12-17-20	SANDY SILT WITH GRAVEL (ML) , as above, light brown	
	8-10	SS-4	18	7-13-16	SANDY SILT (ML) , very fine sand, yellowish orange, slightly moist, iron oxide staining, medium stiff	
10'	10-12	SS-5	24	6-15-20	SLIGHTLY SANDY SILT (ML) , as above, some gravel	
	12-14	SS-6	18	10-13-20	SLIGHTLY SANDY SILT (ML) , yellowish orange, dry, stiff, some small gravel towards bottom, sand is very fine (increasing in clay content)	
15'	14-16	SS-7	18	9-15-19	SLIGHTLY SANDY SILT (ML) , as above, dry, stiff, very little gravel	
	16-18	SS-8	18	9-12-16	SILTY CLAY (CL) , yellowish orange, slightly moist very stiff, iron oxide staining	
	18-20	SS-9	18	10-15-27	SILTY CLAY (CL) , as above, weathered caliche bottom 6"	
20'	20-22	SS-10	6	13-17-20	SILTY SAND (SM) , light brown, moist, very loose, fine sand	
	22-24	SS-11	24	8-8-13	SILTY SAND (SM) , light brown, very moist, very loose, fine sand	
25'	24-26	SS-12	18	11-19-25	0-6" SILTY SAND (SM) , as above 6"-18" SANDY CLAY (CL) , dry, stiff, orange/gray mottled, abundant caliche	Sample 26-28 ft, 1430, AHA030
	26-28	SS-13	10	9-12-14	SILTY SAND (SM) , light brown, moist, medium density, vertical fractures with very fine sand	
	28-30	SS-14	NR	6-6-6	No recovery, sand, wet, siltstone Informed driller to drill until out of sands	▽ 28 ft
30'						

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CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA001	SHEET 2 OF 2
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SOIL BORING LOG

PROJECT NAS Fort Worth JRB ACC 2 RFI LOCATION West of Active, North of Lockheed South

ELEVATION 639 57 ft DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 26.93 ft START 11/20/97 1055 FINISH 11/20/97 1535 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
30'					Drilled out SAND, wet	OVM = 1.0 ppm
35'						
40'						
45'						
46-48	SS-15	18	36-32-43		Weathered limestone, abundant shell fragments, fairly coalescent at bottom	Driller on hard rock
50'					Total Depth = 48 ft	
55'						
60'						

CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA002	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION Flightline South of Bravo, Between Active and Foxtrot

ELEVATION 631 83 ft DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 20.5 ft START 12/6/97 0705 FINISH 12/6/97 1005 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'					Drilled out Cuttings are light brown clay	<i>Soil cores were screened and only detections are listed</i>
2-4	SS-1	18		4-10-17	CLAY (CL), light brown, moist, stiff, some small caliche and gravel	
4-6	SS-2	10		22-32-40	SILTY CLAY (CL), light brown, dry, very stiff, some very fine sand, vertical and horizontal fracturing, very low plasticity	
6-8	SS-3	18		17-32-45	SILTY CLAY (CL), as above	
8-10	SS-4	18		20-35-50-5	SILTY CLAY (CL), light brown/gray, dry, very stiff	
10-12	SS-5	18		13-23-35	CLAY (CL), light brown/gray, dry, stiff, silt in vertical and horizontal fractures	
12-14	SS-6	18		16-25-35	CLAY (CL), as above, iron oxide staining	
14-16	SS-7	18		12-21-35	0-10": CLAY (CL), as above 10-18": SANDY CLAY (CL), tan/gray, slightly moist, soft	
16-18	SS-8	18		14-15-13	0-3": SANDY CLAY (CL), as above 3-18" SAND (SP), yellowish orange, moist, loose, very clean	
18-20	SS-9	12		7-9-14	SAND (SP), as above, wet	Sample 18-20 ft, 0945
20-22	SS-10	14		14-16-21	0-4" VERY SILTY SAND (SM), wet, tan/gray 4-14" SAND WITH GRAVEL (SP), saturated, very clean fine sand, <10% gravel	▽ 20.5 ft
25'					Drilled out due to heaving sands	
30'						

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CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA002	SHEET 2 OF 2
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SOIL BORING LOG

PROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION Flightline South of Bravo, Between Active and Foxtrot

ELEVATION 631 83 ft DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 20.5 ft START 11/6/97 0705 FINISH 11/6/97 1005 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE		STANDARD PENETRATION TEST RESULTS 6'-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER			
30'				Sands Drilled out	
35'					
40'				Limestone	
				Total Depth = 42 ft	
45'					
50'					
55'					
60'					

PROJECT NUMBER 138681 A2.03	BORING NUMBER WCHMHTA004	100-3 340
		SHEET 1 OF 2

CH2MHILL**SOIL BORING LOG**

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION Next to #3

ELEVATION 631.68 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Onll B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 20.10 ft START 12/1/97 1025 FINISH 12/1/97 1310 LOGGER M. Wilson

DEPTH BELOW S ⁰ ' SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	NA	NA	NA	Dried out CLAY , dark brown	<i>Soil cores were screened and only detections are listed</i>
2'	2-4	SS-1	10	10-15-23	CLAY (CL) , tan, dry, very stiff, abundant base rock, very lean, (fill material)	
5'	4-6	SS-2	8	15-19-29	CLAY (CL) , as above	
6'	6-8	SS-3	12	14-17-26	CLAY (CL) , yellowish orange, dry, stiff, very lean	
8'	8-10	SS-4	18	15-20-30	CLAY (CL) , as above	
10'	10-12	SS-5	18	9-15-20	SILT WITH SAND (ML) , light brown, slightly moist, stiff, sand content increases toward bottom, sand is very fine	
12'	12-14	SS-6	18	14-20-30	CLAY (CL) , tan/gray, dry, hard	
15'	14-16	SS-7	12	10-19-28	0-10": CLAY (CL) , as above 10-12": SILT (MH) , light brown, moist, very soft	
16'	16-18	SS-8	18	12-22-31	0-9": CLAY (CL) , tan, gray, dry, very stiff 9-10": SANDY SILT (ML) , red/gray mottled, dry, stiff, sand is very fine	
18'	18-20	SS-9	0	14-17-19	No recovery, shoe indicates a wet sand	17-18 ft. Sample AHA043, 1200 18 ft
20'	20-22	SS-10	12	10-9-11	SILTY SAND (SM) , saturated, light brown, sand is very fine	
22'	22-24	SS-11	8	5-8-13	SAND (SP) , saturated, light brown, very fine, loose, clean	
25'	24-26	SS-12	6	5-13-14	SAND (SP) , as above	
26'	26-28	SS-13	10	11-14-20	SAND (SP) , as above	
30'	28-30	SS-14	0		No recovery, wet sand	

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CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA004	SHEET 2 OF 2
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SOIL BORING LOG

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION Next to #3

ELEVATION 631.68 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 20.10 ft START 12/1/97 1025 FINISH 12/1/97 1310 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE		STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER			
30'				Told driller to drill out until he hits hard material Cuttings indicate sand	
35'				Weathered limestone from center bit	
40'				Total Depth = 38 ft	
45'					
50'					
55'					
60'					



CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA004	SHEET 1 OF 1
ROCK CORE LOG		

PROJECT : NAS Fort Worth JRB AOC2 RFI		LOCATION : Next to #3	
ELEVATION : 631 68		DRILLING CONTRACTOR : Total Support Services, Inc. Dallas	
DRILLING METHOD AND EQUIPMENT USED : Mobile Drill B-57 8 1/4" Hollow Stem Auger to 38', NX Rock Core with air			
WATER LEVELS :	N/A	START :	12/1/97 END : 12/1/97 LOGGER : M Wilson/P van Noort
DEPTH BELOW SURFACE (FT)	CORE RUN LENGTH AND RECOVERY(%)	FRACTURES PER FOOT	DISCONTINUITIES
			DESCRIPTION
			DEPTH, TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING AND TIGHTNESS
			ROCK TYPE, COLOR, MINERALOGY, WEATHERING, HARNESS AND ROCK MASS CHARACTERISTICS
			SIZE AND DEPTH OF CASING, FLUID LOSS, CORING RATE AND SMOOTHNESS, CAVING ROD DROPS, TEST RESULTS, ETC
-	-	-	
38	C-1 38- 48 REC=	32% X 5	38-44 rough partings along both laminations and massive bedding structures, no infilling Most partings are handling breaks At 38': - Weather limestone Gray to brownish gray fossil hash Oyster fragments 1-3 cm, mud matrix weathered out 38.2-44.5 Limestone (alternating fossiliferous micrite and pack biomicrite), light gray v fine to coarse fossil fragments Fnable to hard Alternating laminations of shale/claystone and micrite within matrix.
40	-	6	
41	-	4	
42	-	-	
43	-	-	
44	-	-	
45	-	-	
46	-	-	
47	-	-	
48	-	-	
49	-	-	
50	-	-	

PROJECT NUMBER 138681.A2.03	BORING NUMBER WCHMHTA006	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION East of Fox Trot, South of Bravo

ELEVATION 627.22 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Onil B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 16.98 ft START 11/26/97 0815 FINISH 11/26/97 1050 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'				6"-6"-6" (N)	SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0-2	NA	NA	No blows	Dried out Base material	<i>Soil cores were screened and only detections are listed</i>
	2-4	SS-1	10	18-21-23	CLAY (CL), tan, dry, very lean, abundant caliche, vertical and horizontal fractures, very stiff	
5'	4-6	SS-2	12	17-24-40	CLAY (CL), as above, some iron oxide staining in fractures	
	6-8	SS-3	12	14-25-45	CLAY (CL), as above, medium plasticity, very stiff to hard	
	8-10	SS-4	10	13-24-32	CLAY (CL), as above	
10'	10-12	SS-5	18	16-29-31	0-2": CLAY (CL), as above 2-18": VERY SANDY SILT (ML), moist, very stiff, light brown, caliche present, iron oxide staining, sand is very fine ~40%, 60% fines	
	12-14	SS-6	16	6-9-14	SAND (SP), tan, little to no fines, moist, loose to very loose, sand is very fine (sugar sand)	
15'	14-16	SS-7	18	6-11-12	SAND (SP), as above, very clean	12-16 ft: Sample 0945 AHA039 and 040 (dup)
	16-18	SS-8	10	9-12-13	SAND (SP), as above, wet	▽ 16 ft
	18-20	SS-9	12	7-14-18	SAND (SP), tan, saturated, some small gravel, very loose, fine to medium sand	
20'	20-22	SS-10	12	4-13-28	SAND (SP), as above	
	22-24	SS-11	8	8-17-24	SAND (SP), as above, saturated	
25'					SAND (SP), as above Drilled out Heaving sands, casing problems, will drill out until hard material	Oriller says some gravel at ~28 ft
30'						

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CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA006	SHEET 2 OF 2
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SOIL BORING LOG

PROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION East of Fox Trot, South of Bravo

ELEVATION 627.22 ft DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 16.98 ft START 11/26/97 0815 FINISH 11/26/97 1050 LOGGER M Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
30'					Drilled out	
35'						Drilled on hard limestone
					Total Depth = 36.5 ft	
40'						
45'						
50'						
55'						
60'						

CH2MHILL

CH2MHILL	PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA006	SHEET 1 OF 1
ROCK CORE LOG			

PROJECT : NAS Fort Worth JRB AOC2 RFI

LOCATION : East of Fox Trot, South of Bravo

ELEVATION : 627 22

DRILLING CONTRACTOR : Total Support Services, Inc Dallas

DRILLING METHOD AND EQUIPMENT USED : Mobile Drill B-57 8 1/4" Hollow Stem Auger to 36' 5" NX Rock Core with air

WATER LEVELS : 16.98 **START :** 11/26/97 **END :** 11/26/97 **LOGGER :** M Wilson/P.van Noort

WATER LEVELS : 10,70		START : 1/26/97 END : 1/26/97 LOGGER : IV-VIRGINIA, VAN NOORT					
DEPTH BELOW SURFACE (FT)	CORE RUN LENGTH AND RECOVERY (%)	DISCONTINUITIES		LITHOLOGY	COMMENTS		
		DESCRIPTION					
		FRACTURES PER FOOT	RQD (%)				
37	C-1 36- 46 REC=	28% 10	37-37.5 all partings along laminations and or massive bedding structures Rough partings, no infillings, mostly handing breaks	37-37.2 Limestone, light gray, fossil hash infable, weathered. Transition to fossiliferous micrite below 37.2-38 Limestone, (Fossiliferous Micrite to sparse biomicrite), light gray, some dark gray to blackish gray laminations containing shell fragments, sand, organic detritus, shaly	Cores Logged by Peter van Noort 9-23-98		
38	83 90%	10					
39		7		38-43 Limestone (Packed biomicrite), dark gray - medium gray, 50% or greater fossil material, high permeability relative to finer grained, lower fossil content zones (micrite) Wavy laminations, gray mud matrix			
40		4		Oyster shells dominate Soft to hard, fossiliferous micrite zones, very fine grained @ 41.5, 43, 42.2			
41		6		43-45.5 Limestone (Fossiliferous micrite to sparse biomicrite) 2- 3' intervals of packed biomicrite, fossil dominant zones (vs mud dominant zones) At end of core, evidence of bioturbation (discoloration discontinuity)			
42		5					
43		4					
44		4					
45		-					

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA007	SHEET 1 OF 2
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION East of Tang Ramp, North of Bravo

ELEVATION 624.54 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 14.43 ft START 11/18/97 0845 FINISH 11/18/97 1100 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	NA	NA	NA	Drilled out CLAY (CL) , dark gray	<i>Soil cores were screened and only detections are listed</i>
2'	2-4	SS-1	18	7-11-12	CLAY (CL/ML) , light brown, stiff, moist, ~40% weathered caliche (chalk like)	
5'	4-6	SS-2	12	7-11-24	CLAY (CL) , as above	
6'	6-8	SS-3	12	5-12-22	SILT (ML) , light tan, dry, abundant caliche	
8'	8-10	SS-4	16	4-4-4	SILTY SAND (SM) , yellowish orange, moist, very loose, sand is very fine	
10'	10-12	SS-5	18	6-7-9	SAND (SP) , yellowish brown, very fine, slightly moist, very loose	OVM = 0.2 ppm
12'	12-14	SS-6	18	6-12-19	GRAVELLY SAND (SW) , yellowish orange, well sorted, wet, gravel up to ~1", shell fragments in gravel	∇ 12 ft DVM = 0.2 ppm 12-14 ft: Sample AHA019 MS/MSD and dup, 1020
15'	14-16	SS-7	16	5-10-16	SAND WITH GRAVEL (SW) , yellowish orange, saturated, poorly sorted	OVM = 0.2 ppm Will drill out below until rock throughout to prevent heaving sands
20'						
25'						
30'						

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CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA007	SHEET 2 OF 2
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SOIL BORING LOGPROJECT NAS Fort Worth JRB AOC 2 RF1 LOCATION East of Tang Ramp, North of BravoELEVATION 624.54 ft DRILLING CONTRACTOR Total Support Services, Inc / DallasDRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SSWATER LEVEL AND DATE 14.43 ft START 11/18/97 0845 FINISH 11/18/97 1100 LOGGER M Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE		STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER		RECOVERY (INCHES)	
30'			6"-6"-6" (N)	Drilled out SAND Rock	Drilled on something hard, limestone
35'					
40'					
45'					
50'					
55'					
60'					

Total Depth = 32.5 ft

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA008	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION West of Tang Ramp Behind Blast Fence

ELEVATION 623 15 ft

DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 13 31 ft START 11/19/97 0835 FINISH 11/19/97 1010 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	SS-1	16	No blows only push	CLAY (CL), dark brown, moist, stiff, abundant vertical roots	<i>Soil cores were screened and only detections are listed</i> Sample for HGL, Inc. CH2M08-01, 0840
	2-4	SS-2	10	8-9-11	CLAY WITH ABUNDANT SILT (CL), dark brown, moist, stiff, abundant vertical roots	
5'	4-6	SS-3	12	9-14-20	CLAY (CL), dark brown, dry, stiff, abundant vertical roots, trace of fine sand <10%	Sample for HGL, Inc CH2M08-02, 0850
	6-8	SS-4	18	6-13-14	SLIGHTLY SANDY SILT (ML), tan/gray/orange mottled, slightly moist, medium stiff to soft, dark brown clay along vertical fractures	
	8-10	SS-5	16	3-7-9	SILTY SAND (SM), tan to light brown, moist, very loose, sand is very fine, weathered caliche on rock flour last 2"	
10'	10-12	SS-6	18	9-13-15	SILTY SAND (SM), as above	Sample for HGL, Inc. CH2M08-03, 0910 OVM = 0 1 ppm
	12-14	SS-7	12	5-6-7	SAND (SP), fine, wet, <5% fines, very clean loose, shell fragments	▽ 12 ft OVM = 0 1 ppm 12-14 ft Sample collected AHA024, 0920
15'	14-16	SS-8	16	4-8-13	SAND (SP), as above, saturated	OVM = 261 ppm, above hole = 2 2 Strong fuel odor 14-16 ft: Sample collected AHA025, 0930
					Inform driller to drill until out of sand to prevent heaving into augers	
20'					SAND (SP)	
25'				50 for 0	Total Depth = 25 ft	Driller on hard limestone
30'						

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CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA009	SHEET 1 OF 1
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SOIL BORING LOGPROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION East of Tang Ramp Behind Blast FenceELEVATION 615.73 ftDRILLING CONTRACTOR Total Support Services, Inc / DallasDRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SSWATER LEVEL AND DATE 5 59 ft START 11/25/97 1215 FINISH 11/25/97 1345 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	SS-1	24	NA	0-4". Asphalt 4"-1 ft: Base material 1-2 ft: SANDY CLAY (CL) , gray/orange, moist, stiff	<i>Soil cores were screened and only detections are listed</i> 0-2 ft. Sample for HGL, Inc., 1225
	2-4	SS-2	18	6-9-12	SANDY CLAY (CL) , gray/orange, moist, stiff, iron oxide staining	
5'	4-6	SS-3	18	12-15-18	SANDY CLAY (CL) , as above	4-6 ft.. Sample for HGL, Inc., 1320
	6-8	SS-4	12	3-9-13	GRAVELLY SAND (SP) , wet, loose, <10% fines, sand is medium to coarse, gravel up to 1/2"	▽ 6 ft 6-8 ft: AHA036, 1335
10'	8-10	SS-5	12	8-19-26	SAND (SP) , saturated, medium to coarse sand, tan, <5% fines, <5% gravel, clean	
	10-12	SS-6	8	30-50 for 6"	SANDY GRAVEL (GC) , tan, saturated, ~20% fines, gravel is subrounded, bottom appears to be weathered limestone	
15'	SS-7	0	50 for 1"	Limestone	Total Depth = 12 ft	
20'						
25'						
30'						



PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA010	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION Next to #9

ELEVATION 615.74 ft DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 6.24 ft START 12/3/97 0810 FINISH 12/3/97 1200 LOGGER M Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'						<i>Soil cores were screened and only detections are listed</i>
5'						
10'						
13'	13-15	SS-1	16	11-13-11	Drilled out See WCHMHTA009	
15'	15-17	SS-2	20	10-12-15	0-6" SANDY GRAVEL (GC), saturated, gravel up to 1", poorly sorted, medium sand 5-12" SANDY CLAY (SC), wet, abundant weathered caliche 12-16" GRAVELLY SAND (GC), wet, gravel up to 1", sand medium (SP) 0-16" SAND (SP), wet, tan, medium, clean 16-20" CLAY WITH GRAVEL (CL), dry, stiff, some weathered caliche	
17'	17-19	SS-3	0	11-14-12	No recovery Looks like sands	
20'					Drilled out Sands heaving	
25'	24.5-25.5	SS-4	8	22-50 for 2"	-1" weathered limestone SHALE, gray, dry, very stiff, no fossils	Driller on hard at 24.5
30'					Total Depth = 24.5 ft See Rock Core Log	

CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA010	SHEET 1 OF 1
ROCK CORE LOG		

PROJECT : NAS Fort Worth JRB AOC2 RFI		LOCATION : Next to #9			
ELEVATION : 615 74		DRILLING CONTRACTOR : Total Support Services, Inc Dallas			
DRILLING METHOD AND EQUIPMENT USED : Mobile Drill B-57 8 1/4" Hollow Stem Auger to 24 5', NX Rock Core with air					
WATER LEVELS :	6 25'	START :	12/3/97	END : 12/3/97 LOGGER : M Wilson/P van Noort	
DEPTH BELOW SURFACE (FT)	CORE RUN LENGTH AND RECOVERY (%)	DISCONTINUITIES		LITHOLOGY	COMMENTS
		ROD (%)	FRACTURES PER FOOT	DESCRIPTION DEPTH TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING AND TIGHTNESS	
-	-	-	-	-	Cores Logged by Peter van Noort 9-23-98
24 5	C-1	28%	6	24 5-25 2: partings along laminations, 8 total No fractures evident (mostly handling breaks) Smooth, planar surfaces	24 5-25 2 Shale, medium gray Laminated (<1 mm) trace fossil, 1cm oyster shell at 25 2' High calcium carbonate concentration - reacts 10% HCL, soft at top of core, becoming harder with depth
24 5- 35 REC= 6	60%	6	7	25 2-27 7 partings along some wavy laminations, most are rough and occur around fossil fragments and massive bedding structures	25 2-27 7 Limestone (fossiliferous micrite) medium gray, 10-20% fossils, massive to wavy laminations Hard
26 5				27 7-31 0 Same as above Wavy laminated zones tend to break relatively easy Last foot is highly fractured and desegregated.	27 7-29 7 Limestone (fossiliferous micrite with sparse to packed biomicrite zones at 27 7, 28 1, 28 4, 50-70% fossil matter) Limy mud between fossils Oysters are dominant fossil (1-3 cm) Trace secondary pyrite around and within fossils
27 5					29 7-31 Limestone (sparse biomicrite), medium dark gray, 10-50% fossil matter, wavy laminations, hard to flake.
28 5					
29 5					
30 5		X			
31 5					

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA011	1 OF 1
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION Northeast of Tang Ramp

ELEVATION 606.32 ft

DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 12.25 ft START 11/17/97 1345 FINISH 11/17/97 1535 LOGGER M Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	NA	NA	NA	Drilled out 4" Asphalt CLAY, tan, moist (fill) CLAY (CL), dark gray, moist, soft	<i>Soil cores were screened and only detections are listed</i>
2'	2-4	SS-1	18	5-4-6		
5'	4-6	SS-2	12	12-17-20	CLAY (CL), as above	
6'	6-8	SS-3	12	7-12-14	SANDY SILT (ML), gray/orange mottled, dry, stiff, vertical fractures with black fines from above	
8'	8-10	SS-4	12	7-7-7	SILTY SAND (SM), tan/orange mottled, moist, very loose, sand is fine	
10'	10-12	SS-5	10	4-5-4	SILTY SAND (SM), as above	
12'	12-14	SS-6	18	3-5-7	SAND (GW), well sorted, fine to coarse, <5% fines, very loose	▽ 12 ft 12-14 ft Sample, 1430
15'	14-16	SS-7	18	5-6-8	SANDY GRAVEL (GC), saturated, yellowish orange, <5% fines, gravel up to 1" diameter	
16'	16-18	SS-8	18	5-10-12	SANDY GRAVEL (GC), as above	Driller said sand is heaving into augers
20'					As above Drilled out Sand is heaving in augers	
22'					Rock at 22 ft	Driller thinks rock at 22 ft
25'					Total Depth = 22 ft	
30'						

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CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA012	SHEET 1 OF 1
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SOIL BORING LOG

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION East of Alert Apron, West of Building 1628

ELEVATION 606 18 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 13 74 START 11/21/97 1000 FINISH 11/21/97 1115 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6'-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USGS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	NA	NA	NA	Drilled out CLAY, black, moist / SANDY CLAY (CL), dark gray/black, very moist, soft, abundant roots	<i>Soil cores were screened and only detections are listed</i>
	2-4	SS-1	18	3-3-4		
5'	4-6	SS-2	18	7-9-12	SANDY CLAY (CL), dark gray, slightly moist, medium stiff, roots, some small gravel, sand is very fine	
	6-8	SS-3	18	5-7-9	SANDY CLAY (CL), dark gray, slightly moist, soft, some small gravel, sand is medium to coarse <20%	
	8-10	SS-4	18	4-6-11	VERY SANDY CLAY (CL), gray/olive, slightly moist, some increase in gravel 0-12" 12-18" CLAYEY SAND (SC), orange/gray mottled, slightly moist, medium density, abundant gravel	
10'	10-12	SS-5	10	4-9-13	CLAYEY SAND (SC), orange/gray mottled, slightly moist, medium density, sand is coarse to medium	
	12-14	SS-6	18	7-6-5	0-6" GRAVELLY SAND (SP), gray, moist, very little fines, gravel up to 1", loose 6-18". Coarse to medium SAND (SP), wet, tan, very little fines	▽ wet at 12.5 ft 12-14 ft. Sample AHA033, 1050
15'	14-16	SS-7	18	4-6-9	SAND (SP), poorly sorted, saturated, tan, <5% fines, very loose, some small gravel towards bottom	
	16-18	SS-8	12	5-7-19	GRAVELLY SAND (SP), poorly sorted, saturated, tan, <5% fines, very loose	
	18-18.5	SS-9	3	50 for 3"	Limestone, top 2" weathered limestone, 1" competent limestone	
20'					Total Depth = 18.5 ft	
25'						
30'						

CH2MHILL

PROJECT NUMBER	BORING NUMBER	SHEET 1 OF 1
138681 A2 03	WCHMHTA012	
ROCK CORE LOG		

PROJECT : NAS Fort Worth JRB AOC2 RFI **LOCATION :** East of Alert Apron, W. of Bldg 1628
ELEVATION : 606 18 **DRILLING CONTRACTOR :** Total Support Services, Inc Dallas
DRILLING METHOD AND EQUIPMENT USED : Mobile Drill B-57 8 1/4" Hollow Stem Auger to __, NX Rock Core with air
WATER LEVELS : 13.74 **START :** 11/24/97 **END :** 11/24/97 **LOGGER :** M.Wilson/P van Noort

DEPTH BELOW SURFACE (FT)	CORE RUN LENGTH AND RECOVERY (%)	DISCONTINUITIES		LITHOLOGY ROCK TYPE, COLOR, MINERALOGY, WEATHERING, HARNESS AND ROCK MASS CHARACTERISTICS	COMMENTS SIZE AND DEPTH OF CASING, FLUID LOSS, CORING RATE AND SMOOTHNESS, CAVING ROD DROPS, TEST RESULTS, ETC		
		DESCRIPTION					
		ROD (%)	FRACTURES PER FOOT				
-	-	-	-	-	Cores Logged by Peter van Noort 9-23-98		
20.5	C-1 29%	6	20.5 - 21.3 Rough, irregular partings	20.5 - 21.3 Limestone (Fossiliferous micrite), light gray, massive Weathered @ 20.5 showing dark gray to black staining around fossil fragments (manganese oxide?) trace vugs with secondary mineralization some iron oxide staining.			
21.5	REC= 17% 35%	1	21.3 - 22. Rough partings along laminations	21.3-22 Limestone (micrite) dark gray, shaly, laminated, fossiliferous, soft to friable			
22.5	-	-	-	-			
23.5	-	-	-	-			
24.5	C-2 74%	6	24.5 - 29.5 Rough partings along laminations and massive bedding structures	24.5-24.8 Limestone (Fossiliferous Micrite), same as 20.5 - 21.3			
24.5	REC= 5% 100%	3	-	24.8-27 Limestone (Packed Biomicrite), light gray, >50% fossil fragments, tightly packed oyster shell fragments (1->4cm) with light-moderate gray mud matrix, wavy laminations			
35	-	3	-	27-28 Limestone (Fossiliferous micrite to sparse biomicrite), mud matrix with fine grained fossil fragments. Laminated			
40	-	2	-	28-29 same as 24.8-27			
50	-	5	-	-			

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CH2MHILL

PROJECT NUMBER 138681 A2.03	BORING NUMBER WCHMHTA013	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION North of Carswell Inn

ELEVATION 578.76 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 17.15

START 11/17/97 0815 FINISH 11/17/97 1000 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	NA	NA	NA	Dried out CLAY, dark brown, moist	<i>Soil cores were screened and only detections are listed</i>
	2-4	SS-1	18	14-14-19	CLAY (CL), brown, dry, stiff, vertical roots	
	4-6	SS-2	12	13-22-34	SILT WITH SAND (OL), light brown, dry, crumbly, iron oxide staining, some vertical roots, sand is very fine	
	6-8	SS-3	16	19-22-25	SANDY SILT (ML), gray/yellowish orange mottled, very stiff, dry, some vertical fracturing with roots	
	8-10	SS-4	10	12-16-21	0-6": SILT WITH SAND (ML), gray/yellow orange, moist, very stiff 6-10": SILTY SAND (SM), tan/orange, moist, crumbly	
	10-12	SS-5	10	10-15-21	SILTY SAND (SM), tan/orange mottled, moist, loose	
	12-14	SS-6	18	13-10-16	SILTY SAND (SM), gray, moist, very loose, very fine sand	
	14-16	SS-7	18	9-12-17	0-2": SILTY SAND (SM), as above 2-18": SAND (SP), fine, orange, very loose	14-16 ft: Sample, 1000
	16-18	SS-8	6	50 for 3"	0-2": SAND (SP), as above 2-6": SANDY GRAVEL (GC), tan, wet, loose, rock pieces at bottom Rock on bottom Limestone	▽ wet at 17 ft
					Total Depth = 18.5 ft	
20'						
25'						
30'						

PROJECT NUMBER 138681.A2.03	BORING NUMBER WCHMHTA014	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION North Hammerhead, Alpha and Active

ELEVATION 619.43 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE START 11/20/97 0800 FINISH 11/20/97 0845 LOGGER M. Wilson

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	TYPE AND NUMBER	RECOVERY (INCHES)			
0'	0-2	NA	NA	NA	Drilled out SANDY CLAY , dark gray/brown (fill)	<i>Soil cores were screened and only detections are listed</i>
2'	2-4	SS-1	18	6-12-18	SANDY CLAY WITH GRAVEL (OH) , dry, stiff, fill material, abundant roots	
5'	4-6	SS-2	12	17-20-26	SANDY CLAY (CL) , red, moist, stiff	
6'	6-8	SS-3	12	5-8-9	CLAY (CL/CH) , olive/gray mottled, moist, trace of small gravel, slightly plastic, soft	
8'	8-10	SS-4	18	5-7-11	0-12": CLAY (CL) , as above 12-18": CLAY (CL) , orange/gray mottled, vertical and horizontal fractures, stiff, dry	
10'	10-12	SS-5	18	6-11-17	CLAY (CL) , orange/gray mottled, vertical and horizontal fracturing, dry, medium stiff, rock flour	10-12 ft: Sample collected, 0845
12'	12-12.5	SS-6	3	50 for 3"	3" weathered limestone, wet at top 1/2", very little water	<input checked="" type="checkbox"/> 12.2 ft
					Total Depth = 12.5 ft	
15'						
20'						
25'						
30'						

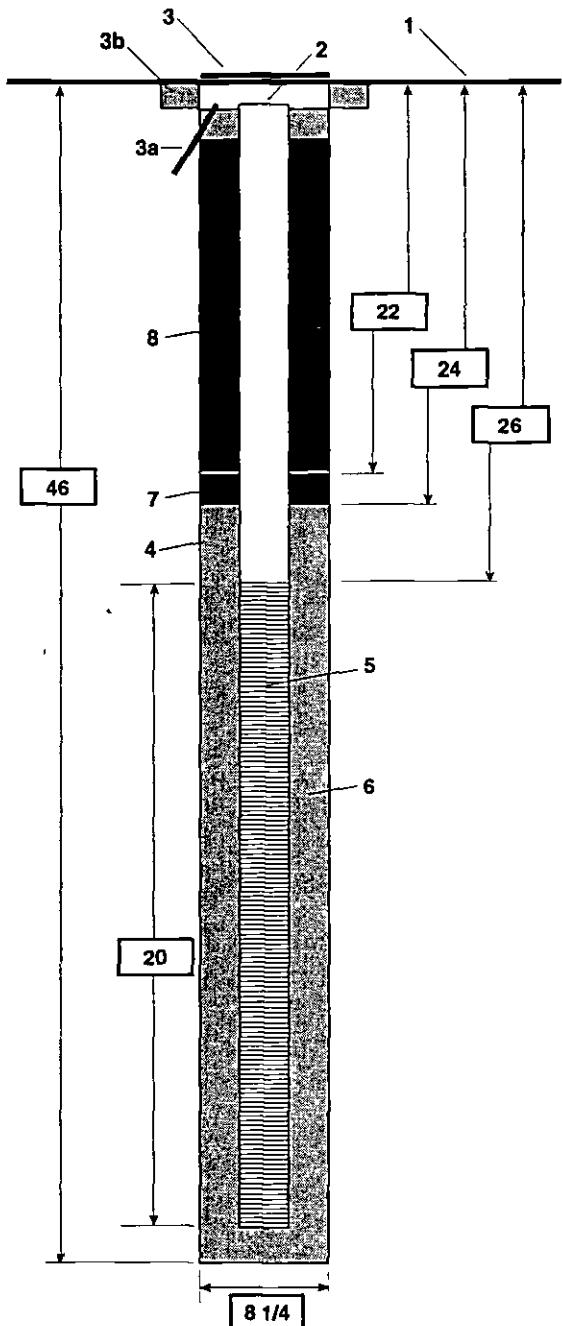
TAB

C-2 WELL COMPLETION FORMS

CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA001	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION West of Actve, North of Lockheed South
ELEVATION 639.57 ft DRILLING CONTRACTOR Total Support Services, Inc. / Dallas
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS
WATER LEVEL AND DATE 26 93 ft START 11/20/97 1535 FINISH 11/20/97 1700 LOGGER M Wilson



- | | |
|-----------------------------------|----------------------------------|
| 1- Ground elevation at well | 639.57 ft |
| 2- Top of casing elevation | 639.08 ft |
| 3- Wellhead protection cover type | 12" diameter steel |
| a) drain tube? | None installed |
| b) concrete pad dimensions | 4' x 4' with steel reinforcement |
| 4- Dia./type of well casing | 2" PVC |
| 5- Type/slot size of screen | PVC 0.010" |
| 6- Type screen filter | 20/40 silica sand |
| a) Quantity used | 750 lbs |
| 7- Type of seal | Bentonite hole plug |
| a) Quantity used | 100 lbs |
| 8- Grout | Portland bentonite powder slurry |
| a) Grout mix used | 400 lbs Portland/15 lbs Gel |
| b) Method of placement | Poured down hole |
| c) Vol. of well casing grout | 22 ft |
| Development method | Overpumping with surging |
| Development time | 12/9/97 - 12/10/97 |
| Estimated purge volume | 300 gallons |

Comments _____

652 153

PROJECT NUMBER

138681 A2 03

BORING NUMBER

WCHMHTA002

SHEET 1 OF 1

CH2MHILL

WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JR8 AOC 2 RFI

LOCATION Flightline South of Bravo Between Active and Foxtrot

ELEVATION 631.83 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

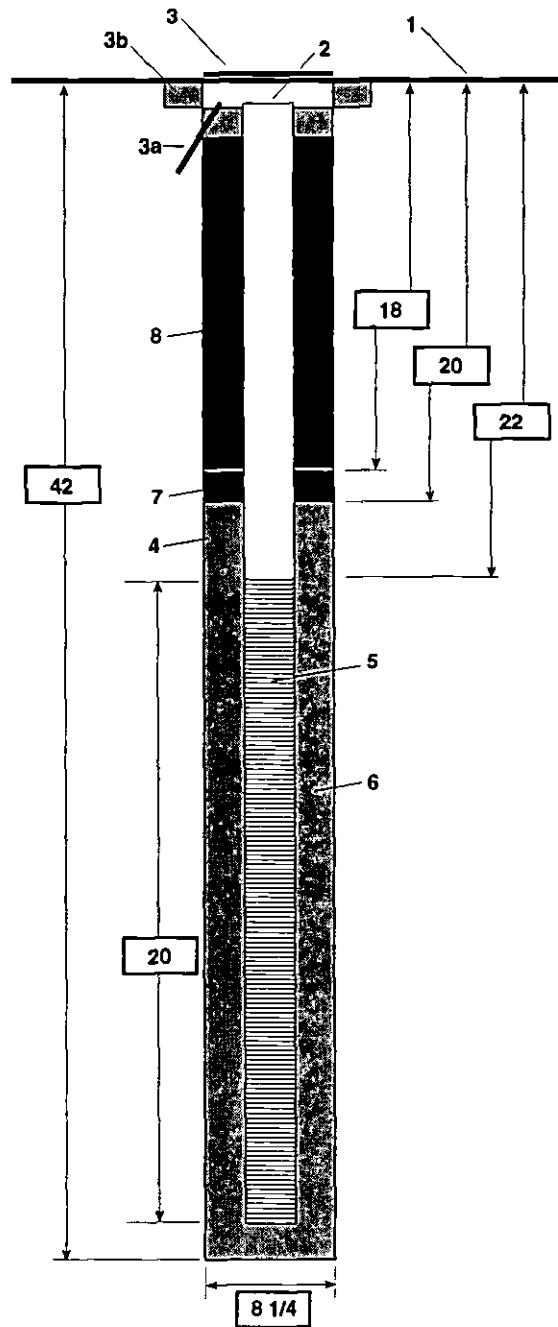
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 19.93 ft

START 12/6/97 1020

FINISH 12/6/97 1300

LOGGER M Wilson



- | | |
|-----------------------------------|---|
| 1- Ground elevation at well | <u>631.83 ft</u> |
| 2- Top of casing elevation | <u>631.32 ft</u> |
| 3- Wellhead protection cover type | <u>12" diameter steel</u> |
| a) drain tube? | <u>None installed</u> |
| b) concrete pad dimensions | <u>4' x 4' with steel reinforcement</u> |
| 4- Dia./type of well casing | <u>2" PVC</u> |
| 5- Type/slot size of screen | <u>PVC .010"</u> |
| 6- Type screen filter | <u>20/40 silica sand</u> |
| a) Quantity used | <u>550 lbs</u> |
| 7- Type of seal | <u>Bentonite hole plug</u> |
| a) Quantity used | <u>100 lbs</u> |
| 8- Grout | <u>Portland bentonite powder slurry</u> |
| a) Grout mix used | <u>300 lbs Portland/12 lbs gel</u> |
| b) Method of placement | <u>Poured down hole</u> |
| c) Vol. of well casing grout | <u>17 ft</u> |
| Development method | <u>Overpumping with surging</u> |
| Development time | <u>12/9/97</u> |
| Estimated purge volume | <u>185 gallons</u> |

CH2MHILL**WELL COMPLETION DIAGRAM**

PROJECT NAS Fort Worth JRB AOC 2 RFI

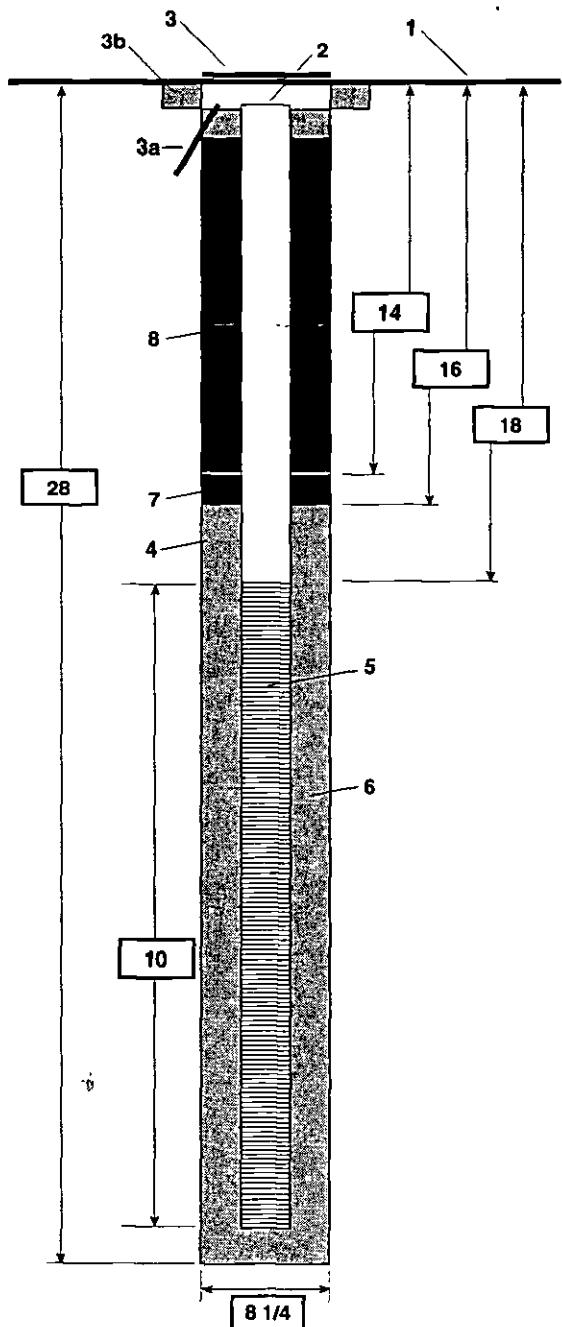
LOCATION Flightline South of Bravo Between Active and Foxtrot

ELEVATION 631.69 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 19.93 ft START 12/6/97 1020 FINISH 12/6/97 1300 LOGGER M. Wilson



- 1- Ground elevation at well 631.69 ft
 2- Top of casing elevation 631.00 ft
 3- Wellhead protection cover type 12" diameter steel
 a) drain tube? None installed
 b) concrete pad dimensions 4' x 4' with steel reinforcement
 4- Dia./type of well casing 2" PVC
 5- Type/slot size of screen PVC 0.010"
 6- Type screen filter 20/40 silica sand
 a) Quantity used 350 lbs
 7- Type of seal Bentonite hole plug
 a) Quantity used 100 lbs
 8- Grout Portland bentonite powder slurry
 a) Grout mix used 200 lbs Portland/12 lbs gel
 b) Method of placement Poured down hole
 c) Vol. of well casing grout 13 ft
 Development method Overpumping with surging
 Development time 12/9/97
 Estimated purge volume 155 gallons

Comments _____

652 155

CH2MHILL

PROJECT NUMBER 138681 A2.03	BORING NUMBER WCHMHTA004	SHEET 1 OF 1
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WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION Next to #3

ELEVATION 631.68 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

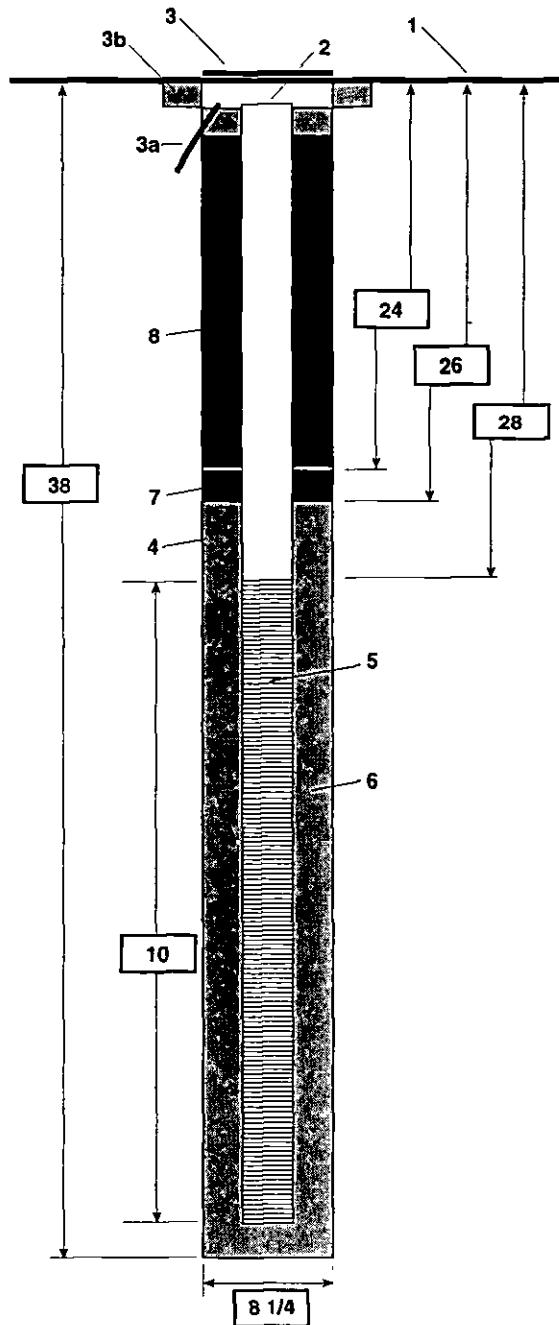
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 20.23 ft

START 12/1/97 1315

FINISH 12/1/97 1700

LOGGER M Wilson



- | | |
|-----------------------------------|----------------------------------|
| 1- Ground elevation at well | 631.68 ft |
| 2- Top of casing elevation | 631.25 ft |
| 3- Wellhead protection cover type | 12" diameter steel |
| a) drain tube? | None installed |
| b) concrete pad dimensions | 4' x 4' with steel reinforcement |
| 4- Dia./type of well casing | 2" PVC |
| 5- Type/slot size of screen | PVC 0.010" |
| 6- Type screen filter | 20/40 silica sand |
| a) Quantity used | 350 lbs |
| 7- Type of seal | Bentonite hole plug |
| a) Quantity used | 100 lbs |
| 8- Grout | Portland bentonite powder slurry |
| a) Grout mix used | 400 lbs Portland/12 lbs gel |
| b) Method of placement | Poured down hole |
| c) Vol. of well casing grout | 23 ft |
| Development method | Overpumping with surging |
| Development time | 12/8/97 |
| Estimated purge volume | 185 gallons |
| Comments | |

CH2MHILL

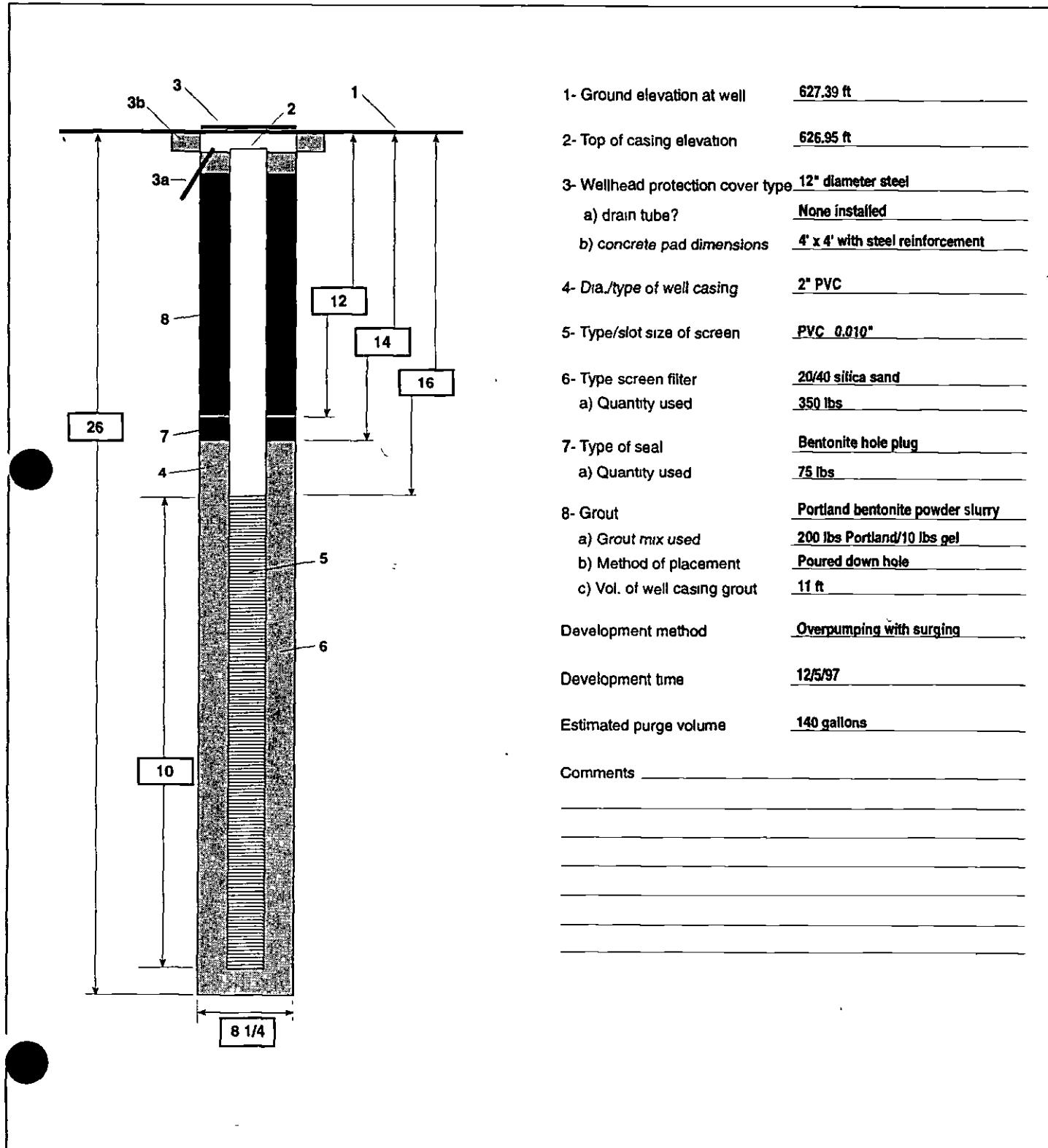
PROJECT NUMBER 138681 A2.03	BORING NUMBER WCHMHTA005	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT NAS Fort Worth JRB ACC 2 RFI LOCATION Approximately 10 ft West of WCHMHTA006

ELEVATION 627.39 ft DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 17.12 ft START 11/26/97 1315 FINISH 11/26/97 1430 LOGGER M Wilson



652 157

CH2MHILL

PROJECT NUMBER

138681.A2.03

BORING NUMBER

WCHMHTA006

SHEET 1 OF 1

WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION East of Foxtrot, South of Bravo

ELEVATION 627.22 ft

DRILLING CONTRACTOR Total Support Services, Inc / Dallas

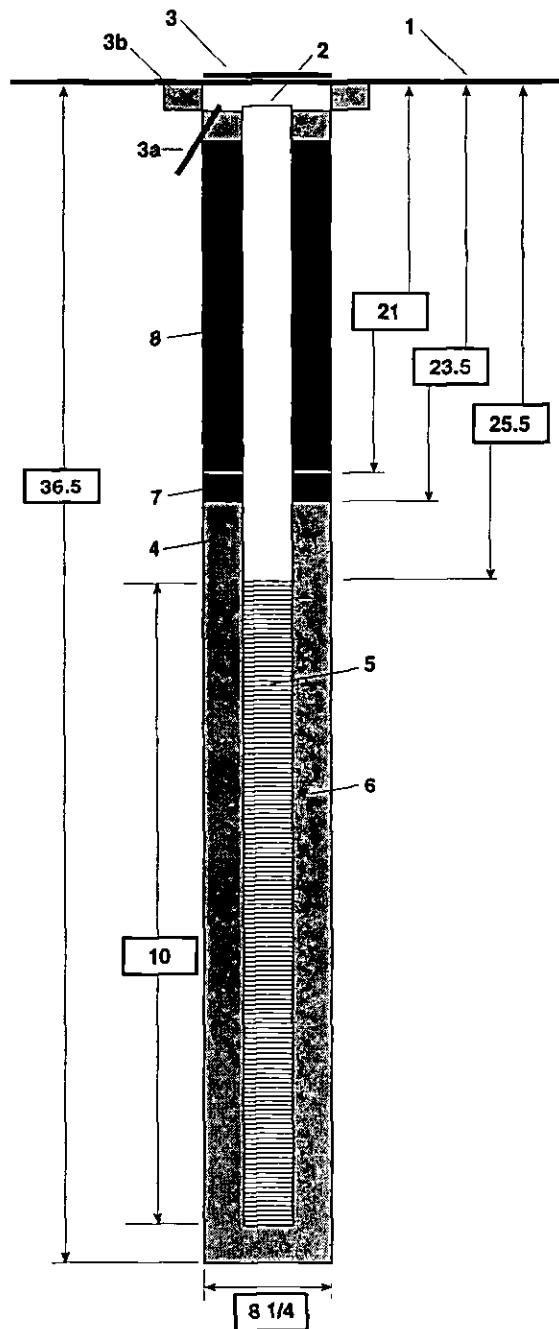
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 16.98 ft

START 11/26/97 1115

FINISH 11/26/97 1220

LOGGER M. Wilson



- 1- Ground elevation at well 627.22 ft
- 2- Top of casing elevation 626.73 ft
- 3- Wellhead protection cover type 12" diameter steel
- a) drain tube? None installed
- b) concrete pad dimensions 4' x 4' with steel reinforcement
- 4- Dia./type of well casing 2" PVC
- 5- Type/slot size of screen PVC 0.010"
- 6- Type screen filter 20/40 silica sand
- a) Quantity used 350 lbs
- 7- Type of seal Bentonite hole plug
- a) Quantity used 100 lbs
- 8- Grout
- a) Grout mix used Portland bentonite powder slurry
- b) Method of placement Poured down hole
- c) Vol. of well casing grout 30 ft
- Development method Overpumping with surging
- Development time 12/5/97
- Estimated purge volume 155 gallons

PROJECT NUMBER 138681.A2.03	BORING NUMBER WCHMHTA007
	SHEET 1 OF 1

CH2MHILL**WELL COMPLETION DIAGRAM**

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION East of Tang Ramp, North of Bravo

ELEVATION 624.54 ft

DRILLING CONTRACTOR Total Support Services, Inc / Dallas

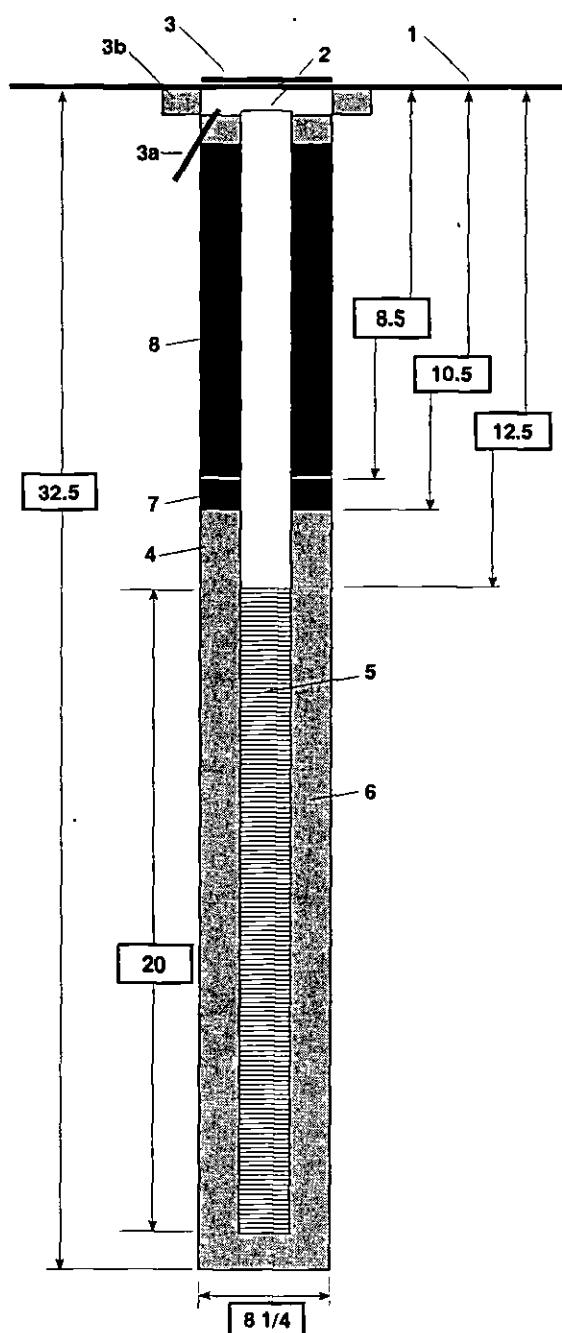
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 14.43 ft

START 11/18/97 1170

FINISH 11/18/97 1300

LOGGER M Wilson



- 1- Ground elevation at well 624.54 ft
 2- Top of casing elevation 623.93 ft
 3- Wellhead protection cover type 12" diameter steel
 a) drain tube? None installed
 b) concrete pad dimensions 4' x 4' with steel reinforcement
 4- Dia./type of well casing 2" PVC
 5- Type/slot size of screen PVC 0.010"
 6- Type screen filter 20/40 silica sand
 a) Quantity used 700 lbs
 7- Type of seal Bentonite hole plug
 a) Quantity used 75 lbs
 8- Grout Portland bentonite powder slurry
 a) Grout mix used 100 lbs Portland/4 lbs gel
 b) Method of placement Poured down hole
 c) Vol. of well casing grout 7.5 ft
 Development method Overpumping with surging
 Development time 12/4/97
 Estimated purge volume 290 gallons
 Comments _____

652 159
CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA008	SHEET 1 OF 1
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WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JRB AOC 2 RFI

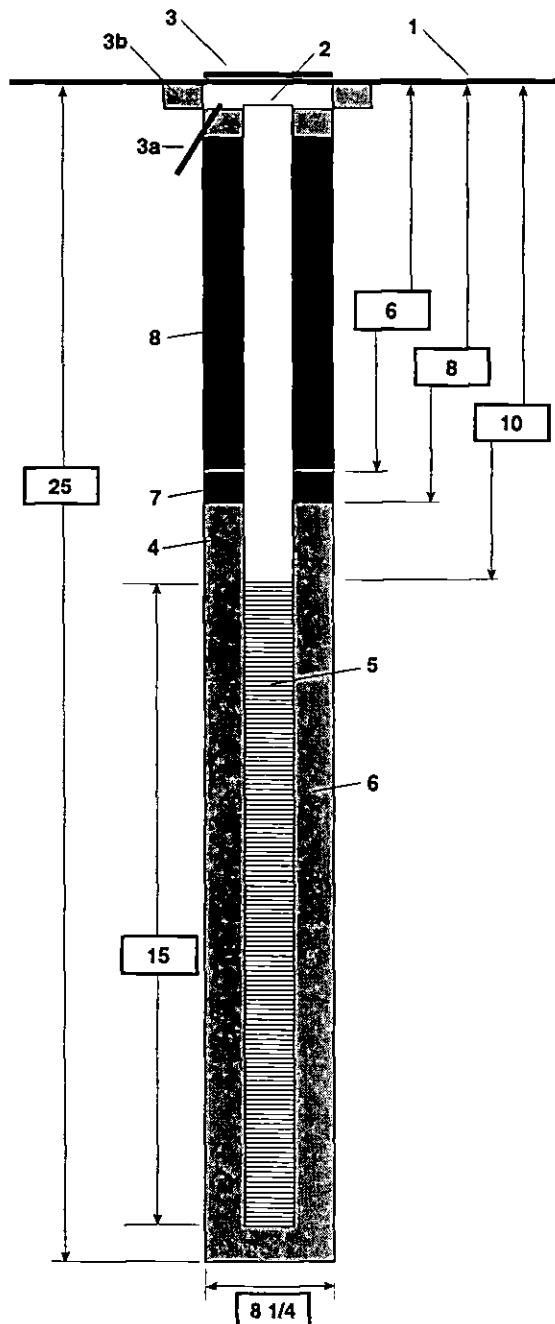
LOCATION West of Tang Ramp Behind Blast Fence

ELEVATION 623 15 ft

DRILLING CONTRACTOR Total Support Services, Inc / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 13 31 ft START 11/9/97 1015 FINISH 11/9/97 1200 LOGGER M Wilson



- 1- Ground elevation at well 623.15 ft
- 2- Top of casing elevation 622.85 ft
- 3- Wellhead protection cover type 12" diameter steel
- 3a) drain tube? None installed
- 3b) concrete pad dimensions 4' x 4' with steel reinforcement
- 4- Dia./type of well casing 2" PVC
- 5- Type/slot size of screen PVC 0.010"
- 6- Type screen filter 20/40 silica sand
- 7- a) Quantity used 500 lbs
- 8- Bentonite hole plug 100 lbs
- 9- Portland bentonite powder slurry 50 lbs Portland/2 lbs gel
- 10- Poured down hole 5 ft
- 11- Development method Overpumping with surging
- 12- Development time 12/8/97
- 13- Estimated purge volume 165 gallons
- 14- Comments _____

CH2MHILL**WELL COMPLETION DIAGRAM**

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION East of Tang Ramp Behind Blast Fence

ELEVATION 615.73 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

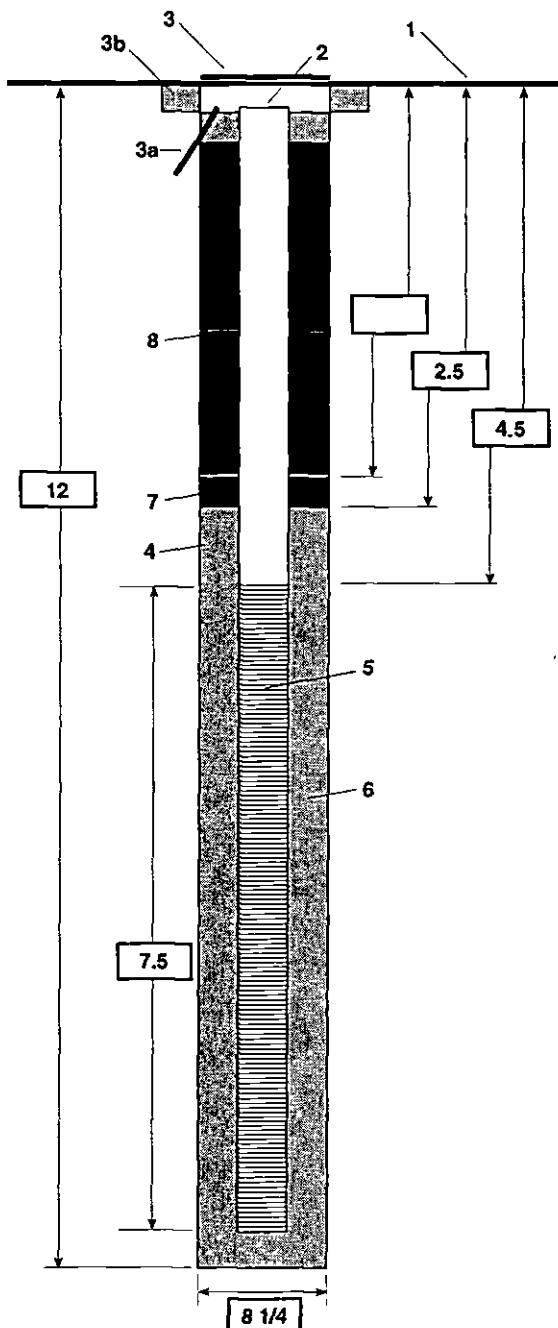
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 5.59 ft

START 11/25/97 1400

FINISH 11/25/97 1515

LOGGER M. Wilson



- 1- Ground elevation at well 615.73 ft
 2- Top of casing elevation 615.55 ft
 3- Wellhead protection cover type 12" diameter steel
 a) drain tube? None installed
 b) concrete pad dimensions 4' x 4' with steel reinforcement
 4- Dia./type of well casing 2" PVC
 5- Type/slot size of screen PVC 0.010"
 6- Type screen filter 20/40 silica sand
 a) Quantity used _____
 7- Type of seal Bentonite hole plug
 a) Quantity used 50 lbs
 8- Grout Bentonite hole plug
 a) Grout mix used 50 lbs Portland/12 lbs gel
 b) Method of placement Poured down hole
 c) Vol. of well casing grout _____
 Development method Overpumping with surging
 Development time 12/4/97
 Estimated purge volume 320 gallons
 Comments _____

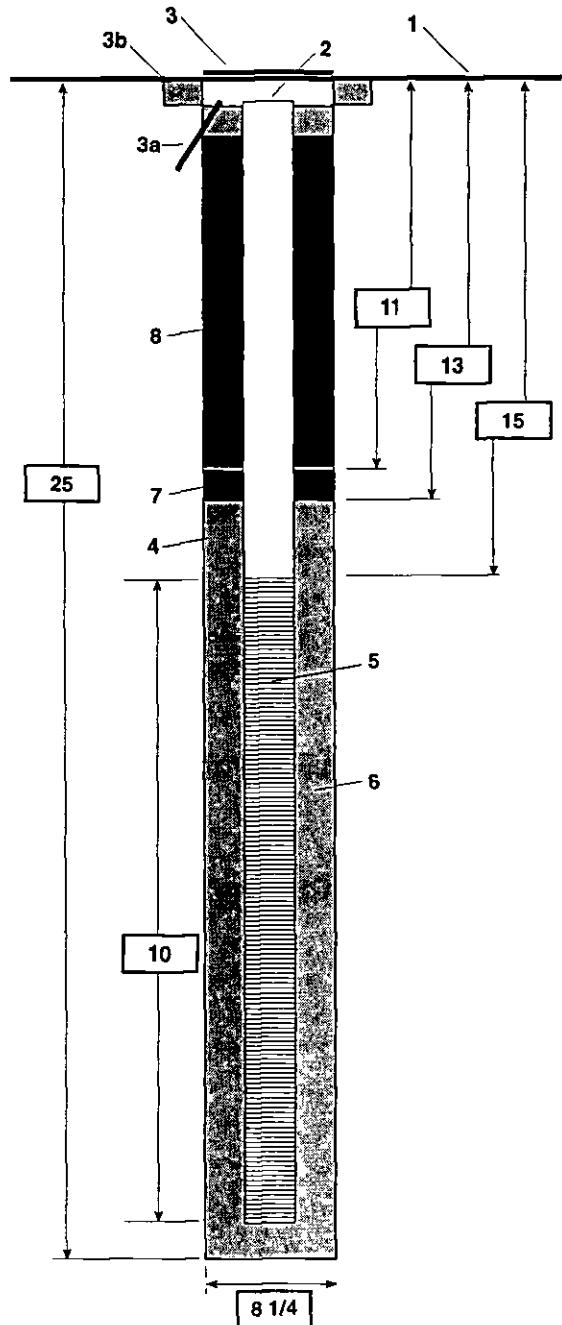
652 161

CH2MHILL

PROJECT NUMBER 138681 A2 03	BORING NUMBER WCHMHTA010	SHEET 1 OF 1
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WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JRB AOC 2 RFI LOCATION East of Tang Ramp Behind Blast Fence
 ELEVATION 615.74 ft DRILLING CONTRACTOR Total Support Services, Inc. / Dallas
 DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS
 WATER LEVEL AND DATE 624 ft START 12/3/97 1300 FINISH 12/3/97 1435 LOGGER M. Wilson



- | | |
|-----------------------------------|----------------------------------|
| 1- Ground elevation at well | 615.74 ft |
| 2- Top of casing elevation | 615.35 ft |
| 3- Wellhead protection cover type | 12" diameter steel |
| a) drain tube? | None installed |
| b) concrete pad dimensions | 4' x 4' with steel reinforcement |
| 4- Dia./type of well casing | 2" PVC |
| 5- Type/slot size of screen | PVC 0.010" |
| 6- Type screen filter | 20/40 silica sand |
| a) Quantity used | 350 lbs |
| 7- Type of seal | Bentonite hole plug |
| a) Quantity used | 75 lbs |
| 8- Grout | Portland bentonite powder slurry |
| a) Grout mix used | 200 lbs Portland/14 lbs gel |
| b) Method of placement | Poured down hole |
| c) Vol. of well casing grout | 10 ft |
| Development method | Overpumping with surging |
| Development time | 12/8/97 |
| Estimated purge volume | 185 gallons |
| Comments | |

CH2MHILL**WELL COMPLETION DIAGRAM**

PROJECT NAS Fort Worth JRB ACC 2 RFI

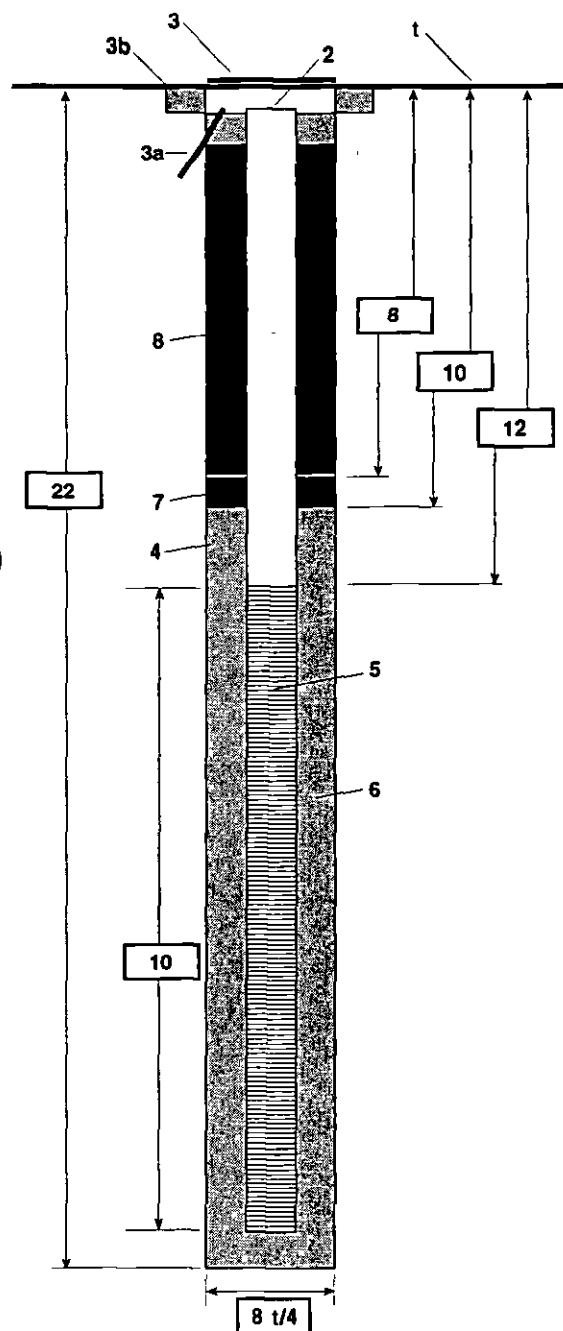
LOCATION Northeast of Tang Ramp

ELEVATION 606.32 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 12 25 ft START 11/17/97 1530 FINISH 11/17/97 t645 LOGGER M Wilson



- t- Ground elevation at well 606.32 ft
- 2- Top of casing elevation 605.80 ft
- 3- Wellhead protection cover type 12" diameter steel
- a) drain tube? None installed
- b) concrete pad dimensions 4' x 4' with steel reinforcement
- 4- Dia./type of well casing 2" PVC
- 5- Type/slot size of screen PVC 0.010"
- 6- Type screen filter 20/40 silica sand
- a) Quantity used 450 lbs
- 7- Type of seal Bentonite hole plug
- a) Quantity used 100 lbs
- 8- Grout Portland bentonite powder slurry
- a) Grout mix used 50 lbs Portland/2 lbs gel
- b) Method of placement Poured down hole
- c) Vol. of well casing grout 7 ft
- Development method Overpumping with surging
- Development time 12/3/97
- Estimated purge volume 370 gallons
- Comments _____

652 163

CH2MHILL

PROJECT NUMBER 138681.A2 03	BORING NUMBER WCHMHTA012	SHEET 1 OF 1
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WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JRB AOC 2 RFI

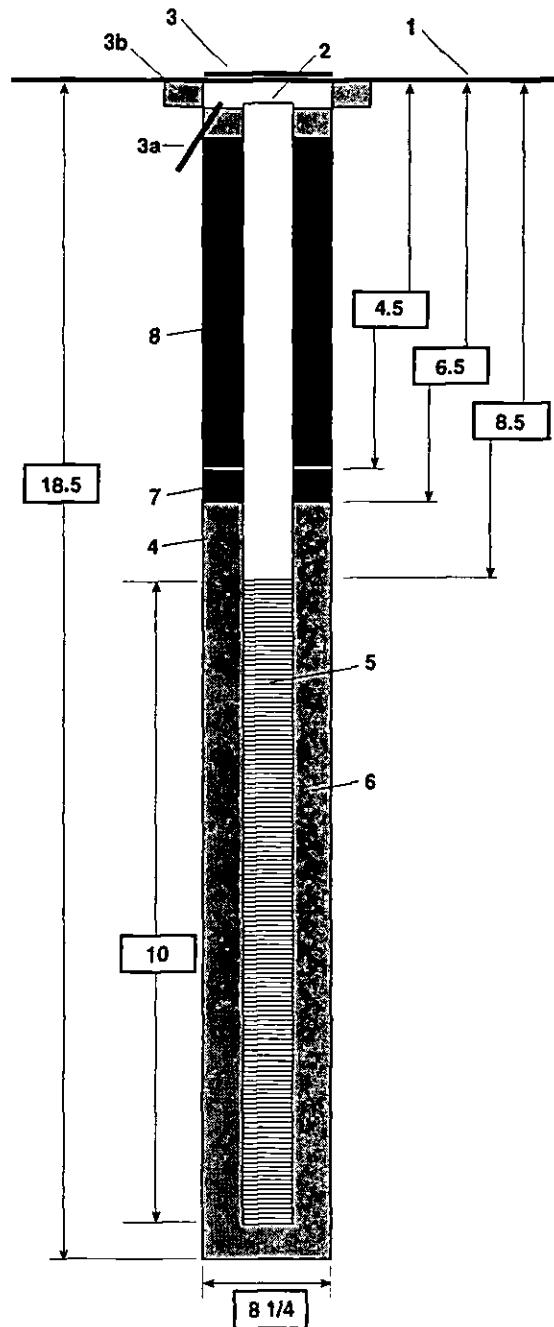
LOCATION East of Alert Apron, West of Building 1628

ELEVATION 606.18 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE 13.74 ft START 11/21/97 1120 FINISH 11/21/97 1230 LOGGER M. Wilson

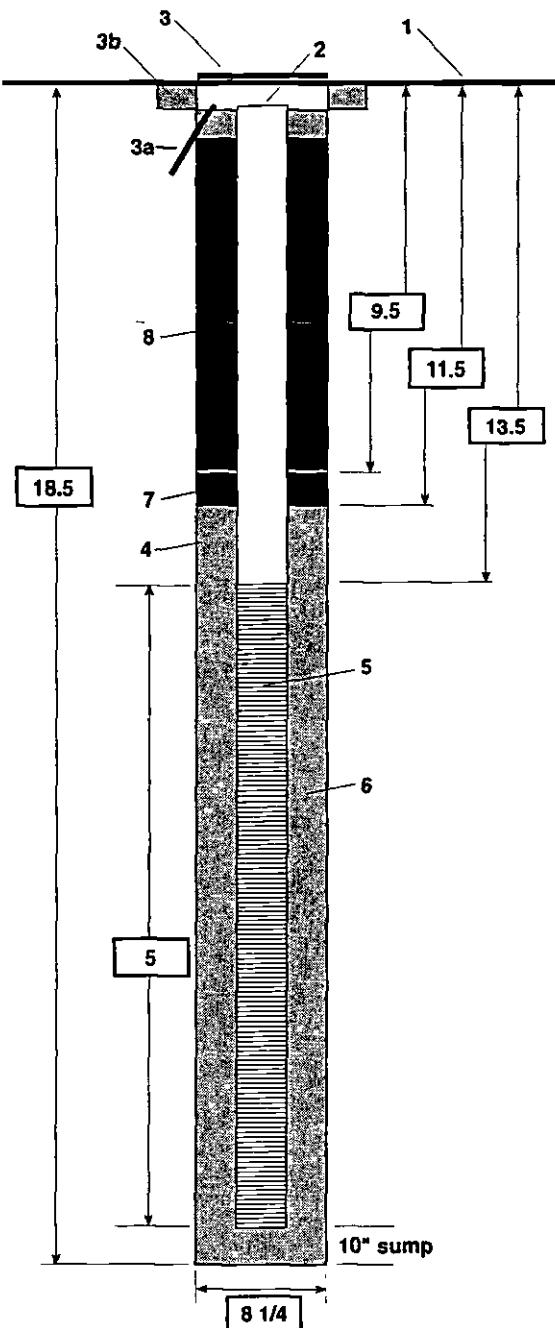


- 1- Ground elevation at well 606.18 ft
- 2- Top of casing elevation 605.85 ft
- 3- Wellhead protection cover type 12" diameter steel
- a) drain tube? None installed
- b) concrete pad dimensions 4' x 4' with steel reinforcement
- 4- Dia./type of well casing 2" PVC
- 5- Type/slot size of screen PVC .010"
- 6- Type screen filter 20/40 silica sand
- a) Quantity used 350 lbs
- 7- Type of seal Bentonite hole plug
- a) Quantity used 75 lbs
- 8- Grout Portland bentonite powder slurry
- a) Grout mix used 50 lbs Portland/2 lbs gel
- b) Method of placement Poured down hole
- c) Vol. of well casing grout 4 ft
- Development method Overpumping with surging
- Development time 12/2/97 - 12/3/97
- Estimated purge volume 390 gallons
- Comments _____

CH2MHILL

PROJECT NUMBER 138681 A2.03	BORING NUMBER WCHMHTA013	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT NAS Fort Worth JRB AOC 2 RFI
 ELEVATION 578.76 ft
 DRILLING CONTRACTOR Total Support Services, Inc. / Dallas
 DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS
 WATER LEVEL AND DATE 1715 ft START 11/17/97 1015 FINISH 11/17/97 1145 LOGGER M Wilson



652 165

CH2MHILL

PROJECT NUMBER

138681.A2.03

BORING NUMBER

WCHMHTA014

SHEET 1 OF 1

WELL COMPLETION DIAGRAM

PROJECT NAS Fort Worth JRB AOC 2 RFI

LOCATION North Hammerhead, Alpha and Active

ELEVATION 619.43 ft

DRILLING CONTRACTOR Total Support Services, Inc. / Dallas

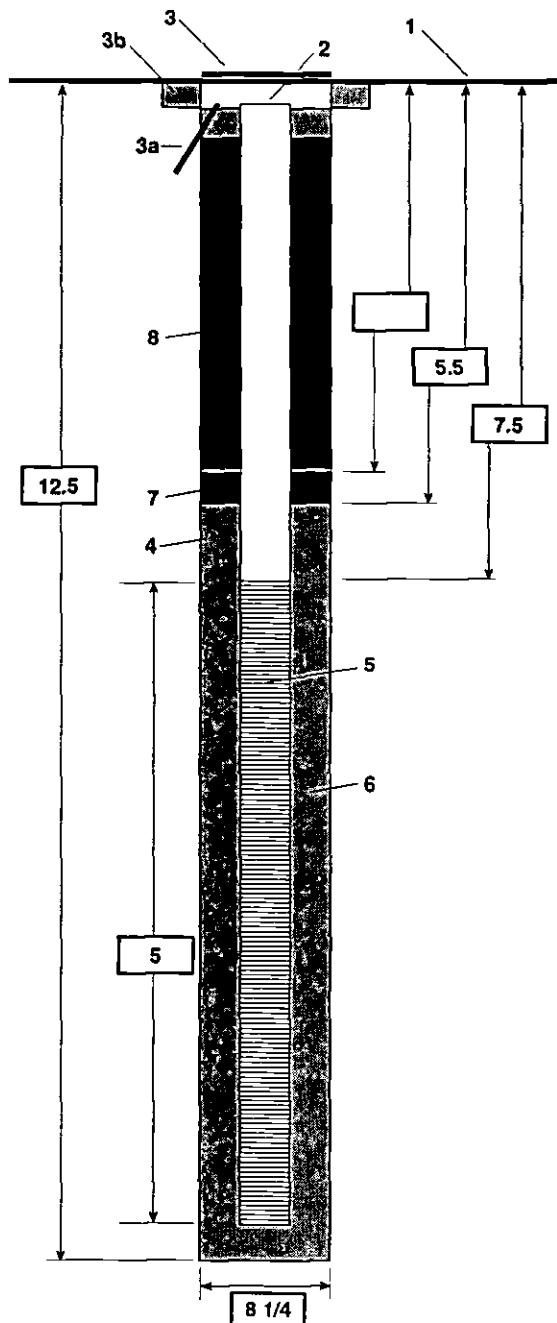
DRILLING METHOD AND EQUIPMENT Mobile Drill B-57 with 8 1/4" HSA, Sampled with 2" SS

WATER LEVEL AND DATE

START 11/20/97 0850

FINISH 11/20/97 0930

LOGGER M. Wilson



- 1- Ground elevation at well 619.43 ft
 2- Top of casing elevation 619.11 ft
 3- Wellhead protection cover type 12" diameter steel
 a) drain tube? None installed
 b) concrete pad dimensions 4' x 4' with steel reinforcement
 4- Dia/type of well casing 2" PVC
 5- Type/slot size of screen PVC 0.010"
 6- Type screen filter 20/40 silica sand
 a) Quantity used 100 lbs
 7- Type of seal Bentonite hole plug
 a) Quantity used 150 lbs
 8- Grout Bentonite hole plug
 a) Grout mix used 150 lbs
 b) Method of placement Poured down hole
 c) Vol. of well casing grout
 Development method Overpumping with surging
 Development time 12/10/97
 Estimated purge volume 0.5 gallons
 Comments Not a lot of water

TAB

C-3 WELL DEVELOPMENT FORMS

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET 1 of 2PROJECT NAME: AOC2 RFL PROJECT NO.: 138681 DATE: 12/9/97LOCATION: WICHITA FLATTS DATE INSTALLED: 11/20/97TOTAL DEPTH (FTOC) 48' CASING DIAMETER 2"METHODS OF DEVELOPMENT Swabbing Bailing Pumping Describe _____Equipment decontaminated prior to development
Describe _____ Yes NOEQUIPMENT NUMBERS

pH Meter _____

Horiba #3695

EC Meter _____

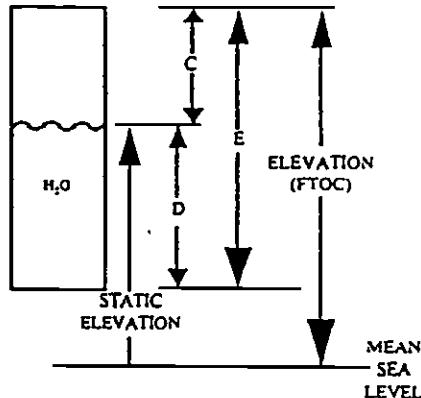
Minirae #3556

Turbidity Meter _____

Thermometer _____

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATIONMeasured Well Depth (B) 45.86 ft.Measured Water Level Depth (C) 26.93 ft.Length of Static Water Column (D) (B) - (C) = 18.93 ft.Casing Water Volume (E) + (A) x (D) = 3.02 galTotal Purge Volume = (cont.) (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/Sand (ppm)	Comments
12/9	1430	26.93	1	6.99	0.62	21.6	999	OVM=0 ppm; brown w/sediment
12/9	1456		50	6.71	0.64	21.2	999	brown; cutting out
12/9	1528		800	6.62	0.64	21.1	999	brown; & flowrate
12/9	1548	..	120	6.61	0.62	20.6	912	cleaning
12/9	1605		140	6.64	0.63	20.1	130	cleaning
12/9	1617		150	6.70	0.63	20.3	110	cleaning
12/9	1622		155	6.70	0.63	20.4	178	cleaning
12/9	1633		165	6.69	0.63	21.0	91	cleaning
12/9	1645		170	6.68	0.63	20.9	74	clear
12/9	1657		175	6.71	0.63	20.7	58	clear

Continued:

652.168

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID
SHEET 2 of 2

PROJECT NAME: AOCZ RFI PROJECT NO.: 138681 DATE: 12/9/97 / 12/10/97
 LOCATION: WCHUHTA001 DATE INSTALLED: 11/20/97
 TOTAL DEPTH (FTOC) 46' CASING DIAMETER 2"

METHODS OF DEVELOPMENT

Swabbing Bailing

Pumping

Describe _____

Equipment decontaminated prior to development

Yes NO

Describe _____

EQUIPMENT NUMBERS:

pH Meter _____

EC Meter _____

Horiba #3645

Turbidity Meter _____

Thermometer _____

Minirae #355L

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

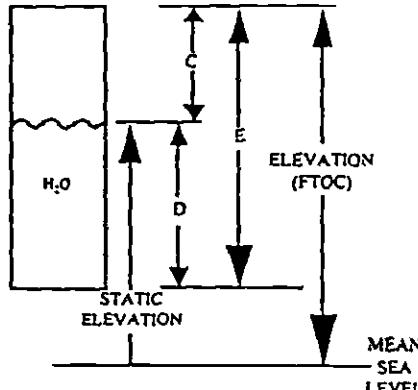
Measured Well Depth (B) 45.86 ft.

Measured Water Level Depth (C) 26.93 ft.

Length of Static Water Column (D) (B) - (C) = 18.93 ft.

Casing Water Volume (E) + (A) * (D) = 3.02 gal

Total Purge Volume = 300 (gal)



Continued:

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/9	1706		180	6.66	0.63	20.8	63	clear
12/9	1716		185	6.65	0.62	20.6	56	clear
12/9	1726	27.05	190	6.63	0.63	20.6	48	clear, too dark to continue TD = 45.95'
12/10	10:52	27.09	220	6.61	0.66	19.0	380	clearing TD = 45.98'
12/10	11:07		230	6.71	0.63	20.3	46	clear
12/10	11:19		240	6.70	0.63	20.1	21	clear
12/10	11:30		250	6.73	0.63	20.5	17	clear
12/10	11:40		260	6.71	0.62	20.5	14	clear
12/10	11:50		270	6.74	0.63	20.8	11	clear
12/10	12:00	27.15	280	6.72	0.61	21.0	19	clear
12/10	12:20	27.15	300	6.73	0.63	20.8	10	clear TD = 45.78

652, 169

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID
SHEET 1 of 1

PROJECT NAME: AOCZ RFI PROJECT NO.: 138681 DATE: 12/9/97
 LOCATION: WC1HMGTA003 DATE INSTALLED: 12/6/97
 TOTAL DEPTH (FTOC) 42' CASING DIAMETER 2"

METHODS OF DEVELOPMENT

Swabbing Bailing Pumping

Equipment decontaminated prior to development

Describe _____
 Yes NO

Describe _____

EQUIPMENT NUMBERS.

pH Meter _____

EC Meter _____

Horiba # 845

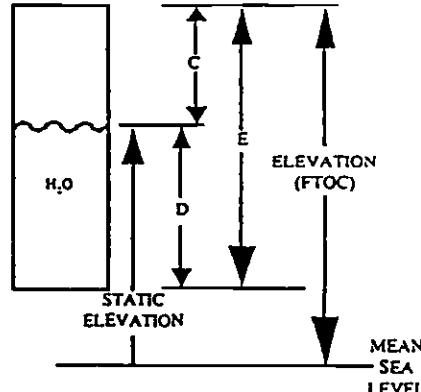
Mini Rae # 3556

Turbidity Meter _____

Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATIONMeasured Well Depth (B) 42.35 ft.Measured Water Level Depth (C) 19.93 ft.Length of Static Water Column (D) (B) - (C) = 22.42 ft.Casing Water Volume (E) = (A) x (D) = 3.58 galTotal Purge Volume = 185 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/9 1109		19.93	1	6.84	0.63	20.0	999	0VM = 0.0 ppm, brown w/silicat
12/9 11:28			50	6.68	0.71	20.4	999	brown
12/9 1145			100	6.72	0.70	20.0	51	clearing
12/9 1156			125	6.73	0.70	20.1	121	clear; ↓ flowrate slightly
12/9 1207			150	6.74	0.70	19.9	20	clear; ↓ flowrate
12/9 1218			160	6.75	0.70	20.7	10	clear
12/9 1230			170	6.76	0.71	21.1	7	clear
12/9 1243			180	6.74	0.70	21.0	5	clear
12/9 1250		19.93	185	6.75	0.69	21.1	3	clear

ending TD = 42.40

652 170

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET 1 of 1

PROJECT NAME: AOCZ RFI PROJECT NO.: 138681 DATE: 12/9/97
 LOCATION: WCHUUT TA005 DATE INSTALLED: 12/2/97
 TOTAL DEPTH (FTOC) 28' CASING DIAMETER 3"

METHODS OF DEVELOPMENT Swabbing Bailing Pumping Describe _____ Yes NO

Equipment decontaminated prior to development

Describe _____

EQUIPMENT NUMBERS:

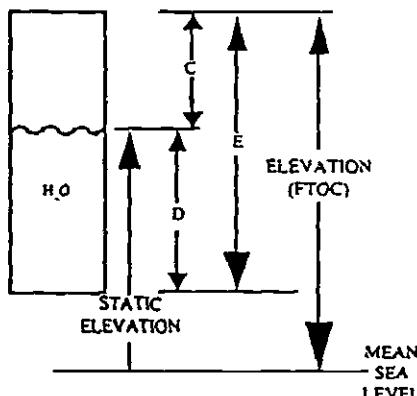
pH Meter _____

EC Meter Horiba #3645Turbidity Meter OVM #3556

Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:Measured Well Depth (B) 28.56 ft.Measured Water Level Depth (C) 20.10 ft.Length of Static Water Column (D) (B) - (C) 8.46 ft.Casing Water Volume (E) (A) * (D) 1.35 cu ftTotal Purge Volume = 155 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/9	08:35	20.10	1	6.90	0.58	18.0	999	OVM = 2.0 ppm; brown w/ sediment
12/9	0852		50	6.89	0.55	21.5	999	brown
12/9	0916		100	6.91	0.54	21.3	80	cleaning
12/9	0926		125	6.96	0.52	21.4	72	clear & fluorescent
12/9	0936		135	6.76	0.54	21.6	13	clear
12/9	0954		145	6.76	0.67	21.9	5	clear
12/9	1004		150	6.94	0.67	22.4	2	clear
12/9	1012	20.23	155	6.94	0.67	22.2	3	clear

AFCEE FORM WD.0

ending TD: 28.65

652 171

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID
SHEET 1 of 1PROJECT NAME: AOC2 RFI PROJECT NO.: 138681 DATE: 12/8/97LOCATION: WCHMNTA004 DATE INSTALLED: 12/1/97TOTAL DEPTH (FTOC) 38' CASING DIAMETER 2"METHODS OF DEVELOPMENT Swabbing Bailing Pumping Describe _____

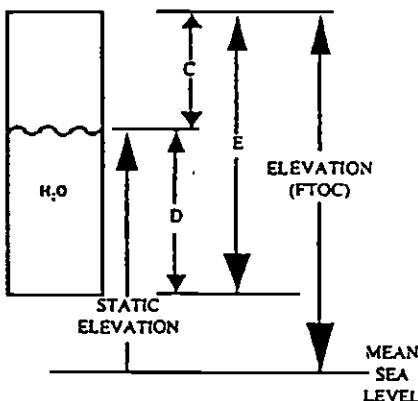
Equipment decontaminated prior to development

 Yes NO

Describe _____

EQUIPMENT NUMBERS: Horiba #3645 Minikao #3552
pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATIONMeasured Well Depth (B) 37.70 ft.Measured Water Level Depth (C) 20.23 ft.Length of Static Water Column (D) (B) - (C) = 17.47 ft.Casing Water Volume (E) + (A) x (D) = 2.79 galTotal Purge Volume = 185 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/Sand (ppm)	Comments
12/8	1436	20.23	1	7.7	0.59	21.6	999	OVM = 0 ppm ^{brown}
12/8	1451		55	6.89	0.80	22.1	999	brown
12/8	1506		100	6.98	0.92	22.1	178	clearing
12/8	1515		130	6.95	0.73	22.1	178	clearing & fluorate
12/8	1532		140	6.97	0.76	22.1	43	clear
12/8	1544		145	6.96	0.74	22.1	32	clear
12/8	1550		150	6.96	0.74	22.1	26	clear
12/8	1600		155	6.93	0.74	22.1	20	clear
12/8	1610		165	6.94	0.74	22.1	18	clear
12/8	1623		175	Battery died, cannot collect further readings/water				

* Purged total of 185 gallons, water clear

ending WL = 10.30

ending TD = 37.84

-652 172

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID WCHMHTA
SHEET 1 of 1

PROJECT NAME: NAS AOCZ PROJECT NO.: 138681

DATE: 12-5-97

LOCATION: ACQUISITION TRADES DATE INSTALLED: 11/76/97

TOTAL DEPTH (FTOC) 26' CASING DIAMETER 2" P.V.C.

METHODS OF DEVELOPMENT

Swabbing Bailing

Pumping

Describe _____

Equipment decontaminated prior to development

Yes No

EQUIPMENT NUMBERS.

pH Meter

EC Meter

Turbidity Meter

Thermometer

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.3	2.0	2.6

PURGING INFORMATION:

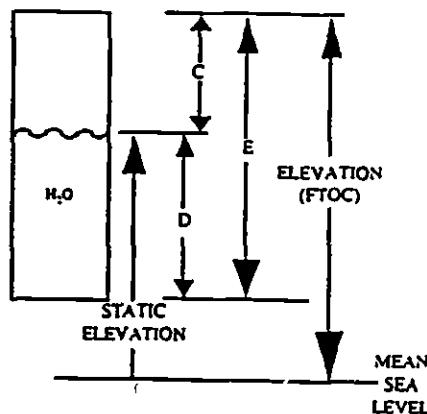
Measured Well Depth (B) 26.75 ft.

Measured Water Level Depth (C) 17.12 ft.

Length of Static Water Column (D) 26.75 - 17.12 = 9.63 m.
(B) (C)

$$\text{Casing Water Volume (E)} = \frac{16}{(A)} \cdot \frac{9.63}{(D)} = 1.57 \text{ gal}$$

Total Purge Volume = 140 (gal)



16529173

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID 61CHMHTA06
SHEET 1 of 1

PROJECT NAME: AOC2 RFI PROJECT NO.: 138681, DATE: 12/5/97
 LOCATION: WCHMHHTA006 DATE INSTALLED: 11/26/97
 TOTAL DEPTH (FTOC) 36' CASING DIAMETER 2" PVC

METHODS OF DEVELOPMENT

Swabbing Bailing Pumping Describe _____
 Equipment decontaminated prior to development Yes NO
 Describe _____

EQUIPMENT NUMBERS:

pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

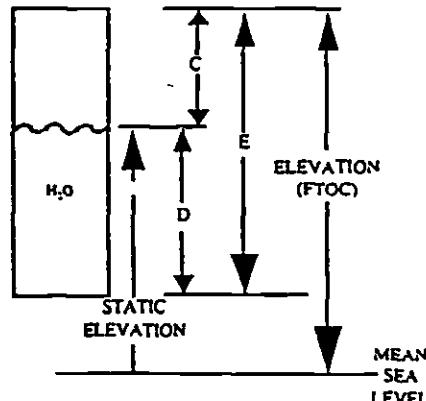
Measured Well Depth (B) 36.49 ft.

Measured Water Level Depth (C) 16.98 ft.

Length of Static Water Column (D) 36.49 - 16.98 = 19.51 ft.
 (B) (C)

Casing Water Volume (E) = 0.63 x 19.51 = 3.18 gal
 (A) (D)

Total Purge Volume = 155 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/5	10:40	16.98	0	7.09	.57	20.1	999	Brownish OVM-0.9 ppm with sed
12/5	10:55		50	6.87	.58	20.8	999	Brownish
12/5	11:00		75	6.89	.57	20.9	254	Clearing
12/5	11:15		100	6.88	.57	20.8	46	Clear
12/5	11:25		125	6.89	.58	20.9	30	Clear
12/5	11:30		135	6.99	.58	20.8	19	Clear
12/5	11:40		150	6.90	.58	20.8	6	Clear
12/5	11:45		155	6.90	.58	20.8	3	Clear

652 174

WELL DEVELOPMENT RECORD

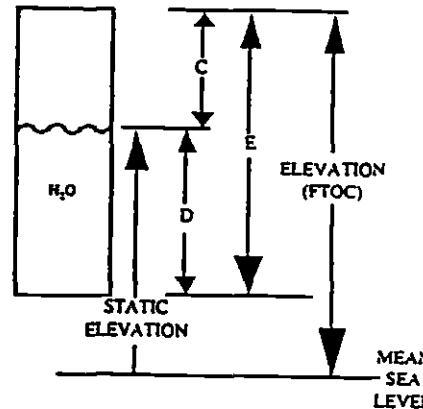
WELL/PIEZOMETER ID _____
SHEET 1 of 2PROJECT NAME: AOC2 RPI PROJECT NO.: 138681 DATE: 12/4/97LOCATION: WCMM H TA007 DATE INSTALLED: 11/18/97TOTAL DEPTH (FTOC) 32.5' CASING DIAMETER 2"METHODS OF DEVELOPMENT

Swabbing Bailing Pumping Describe combined w/ surging
 Equipment decontaminated prior to development Yes NO
 Describe _____

EQUIPMENT NUMBERS: HoriBa # 3645 Min.Rae # 3556
 pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:Measured Well Depth (B) 32.41 ft.Measured Water Level Depth (C) 14.43 ft.Length of Static Water Column (D) (B) - (C) = 17.98 ft.Casing Water Volume (E) = (A) * (D) = 2.9 galTotal Purge Volume = 290 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/4	1318	14.43	1	6.76	0.97	20.4	999	DVM = 0.0 ppm; brown w/ sediment
12/4	1338		50	6.84	0.72	22.8	999	brown/tan
12/4	1354		100	6.80	0.77	23.3	999	"
12/4	1408		130	6.84	0.76	23.1	999	"
12/4	1415		150	6.86	0.75	23.2	70	C/Car
12/4	1424		175	6.90	0.76	23.7	24	clear
12/4	1435		195	6.91	0.73	23.6	13	clear
12/4	1440		210	6.92	0.76	23.7	13	c/car
12/4	1445		220	6.91	0.75	23.2	12	clear
12/4	1450		230	6.92	0.76	23.2	13	clear

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET 2 of 2

PROJECT NAME: AOC2 RF1 PROJECT NO.: 138681 DATE: 12/7/97
 LOCATION: WCHM HTA007 DATE INSTALLED: 11/18/97
 TOTAL DEPTH (FTOC) 32.5' CASING DIAMETER 2"

METHODS OF DEVELOPMENT

Swabbing Bailing Pumping

Describe _____

Equipment decontaminated prior to development

Yes NO

Describe _____

EQUIPMENT NUMBERS:

pH Meter _____

EC Meter _____

Minirae # 3556

Turbidity Meter _____

Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	- 0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

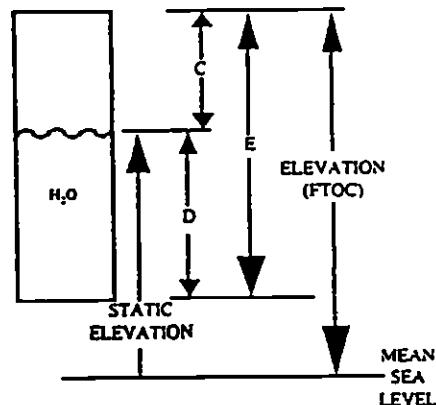
Measured Well Depth (B) 32.41 ft.

Measured Water Level Depth (C) 14.43 ft.

Length of Static Water Column (D) (B) - (C) = 17.98 ft.

Casing Water Volume (E) + (A) x (D) = 2.1 gal

Total Purge Volume = 290 (gal)



continued

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/4	1500		280	6.95	0.76	23.4	11	clear
12/4	1505	14.51	290	6.92	0.74	23.6	4	clear TD=32.45

652 176

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID
SHEET 1 of 1

PROJECT NAME: AOCZ RFI PROJECT NO.: 138681 DATE: 12/8/97
 LOCATION: WCHMHTA008 DATE INSTALLED: 11/19/97
 TOTAL DEPTH (FTOC) 25' CASING DIAMETER 2"

METHODS OF DEVELOPMENT

Swabbing Bailing

Pumping

Describe _____

Equipment decontaminated prior to development
Describe _____

Yes NO

EQUIPMENT NUMBERS

pH Meter _____

Minikaa # 8556

EC Meter _____

Haniba # 3645

Turbidity Meter _____

Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

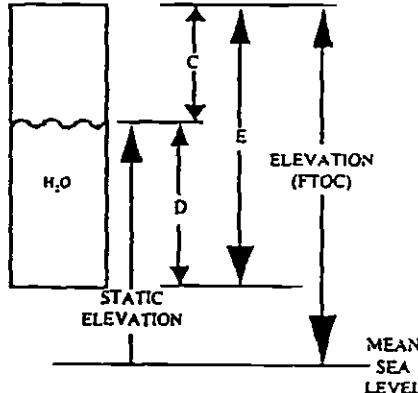
Measured Well Depth (B) 24.64 ft.

Measured Water Level Depth (C) 13.31 ft.

Length of Static Water Column (D) (B) - (C) = 11.33 ft.

Casing Water Volume (E) = (A) x (D) = 1.81 gal

Total Purge Volume = 165 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/Sand (ppm)	Comments
12/8	1036	13.31	2	6.73	2.03	20.3	999	DVM = 474 ppm, brown w/ SD
12/8	1054		50	6.76	2.12	22.0	999	brown
12/8	1110		100	6.81	2.07	21.5	113	clearing: b fluorate
12/8	1137		120	6.85	2.07	21.4	384	"
12/8	1153		130	6.82	2.06	21.4	19	clear
12/8	1205		140	6.81	2.05	21.8	8	clear
12/8	1218		150	6.81	2.06	21.9	4587	clear
12/8	1235	13.34	165	6.86	2.06	22.1	6	clear

ending TD = 24.64 AFCEE FORM WD.0

652 177

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET 1 of 2PROJECT NAME: AOCZ RFI PROJECT NO.: 138681 DATE: 12/4/97LOCATION: WCHM HTA 009 DATE INSTALLED: 11/25/97TOTAL DEPTH (FTOC) 12' CASING DIAMETER 2"

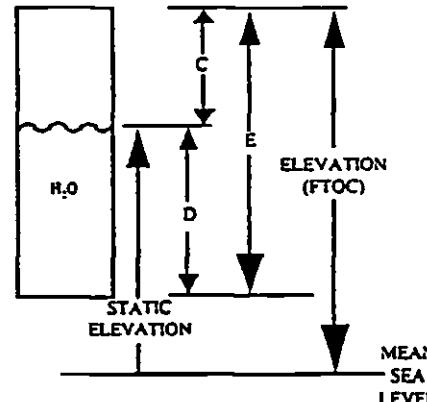
METHODS OF DEVELOPMENT Horiba # Minikaa #
 Swabbing Bailing Pumping
 Describe Combined w/ surging
 Yes No

Equipment decontaminated prior to development
 Describe _____

EQUIPMENT NUMBERS: Horiba # 3645 Minikaa # 3556
 pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	(0.16)	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:Measured Well Depth (B) 11.81 ft.Measured Water Level Depth (C) 5.59 ft.Length of Static Water Column (D) (C) - (B) = 6.22 ft.Casing Water Volume (E) = (A) x (D) = 1.0 galTotal Purge Volume = 320 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/4	0849	5.59	1	6.81	0.68	18.1	999	OVM=0.0 ppm; brown w/ sediment
12/4	0909	50	673	0.79	22.2	999	"	brown/tan
12/4	0932	100	6.76	0.76	22.2	999	"	"
12/4	0937	120	6.99	0.71	22.6	768	clearing	"
12/4	0944	135	6.99	0.71	22.6	131	"	"
12/4	0950	150	6.99	0.71	22.6	90	clear	"
12/4	0956	165	7.00	0.70	22.5	50	clear	"
12/4	1005	180	7.02	0.71	22.5	38	clear	"
12/4	1012	195	6.96	0.73	22.6	62	clear	"
12/4	1017	210	6.96	0.72	22.87	81	clear	"
12/4	1021	225	7.00	0.74	22.0	42	clear	"

AFCEE FORM WD 0

Continued 1

652 178

WELL DEVELOPMENT RECORD

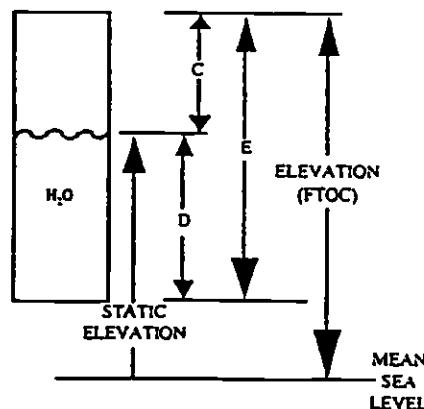
WELL/PIEZOMETER ID _____
SHEET 1 of 2PROJECT NAME: AOCZ OFI PROJECT NO.: 138681 DATE: 12/4/97LOCATION: WCHM HTA 009 DATE INSTALLED: 11/25/97TOTAL DEPTH (FTOC) 12' CASING DIAMETER 7"METHODS OF DEVELOPMENT Swabbing Bailing Pumping Describe _____ Yes NO

Equipment decontaminated prior to development

Describe _____

EQUIPMENT NUMBERS:pH Meter _____ EC Meter Haniba # 3645 Turbidity Meter _____ Thermometer _____Minirae # 3556CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION.Measured Well Depth (B) 11.81 ft.Measured Water Level Depth (C) 5.59 ft.Length of Static Water Column (D) (B) - (C) = 6.22 ft.Casing Water Volume (E) = (A) * (D) = 1.0 galTotal Purge Volume = 320 (gal)

Continued:

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/Sand (ppm)	Comments
12/4	1026		240	6.95	0.71	22.6	38	clear
12/4	1039		275	7.02	0.72	22.5	68	clear raised pump 2'
12/4	1047		290	6.98	0.73	23.0	31	clear
12/4	1053		305	6.99	0.73	22.7	30	clear
12/4	1101	6.61	320	6.96	0.73	22.3	7	clear TDF 11.71

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET 1 of 1PROJECT NAME: AOCZ RFI PROJECT NO.: 138601 DATE: 12/8/97LOCATION: WCHM HTA010 DATE INSTALLED: 11/3/97TOTAL DEPTH (FTOC) 25' CASING DIAMETER 2"METHODS OF DEVELOPMENT Swabbing Bailing Pumping Describe combined w/ surging

Equipment decontaminated prior to development

 Yes NO

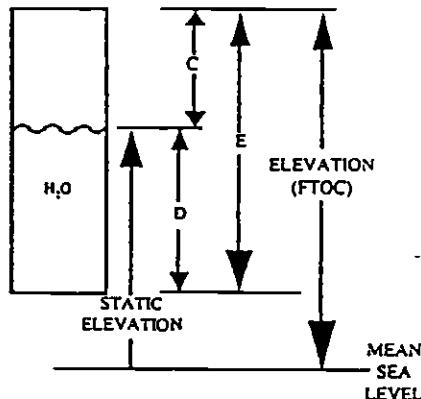
Describe _____

EQUIPMENT NUMBERS: Hori ba # 3645 Minikae # 3552

pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATIONMeasured Well Depth (B) 24.18 ft.Measured Water Level Depth (C) 6.24 ft.Length of Static Water Column (D) (B) - (C) = 17.94 ft.Casing Water Volume (E) + (A) x (D) = 2.87 galTotal Purge Volume = 185 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/8	0835	24.18 6.24	2	6.65	1.20	21.8	999	ORH = 3.7 ppm; some w/ sediment
12/8	0845	6.25	50	6.80	1.14	29.6	427	clearing
12/8	0900		100	6.76	1.11	29.2	380	clearing, & flow rate
12/8	0910		130	6.80	1.13	24.1	17	clear
12/8	0918		140	6.80	1.11	23.89	12	clear
12/8	0926		150	6.82	1.13	24.1	8	clear
12/8	0934		160	6.81	1.13	24.1	8	clear
12/8	0942		170	6.80	1.11	24.4	8	clear
12/8	0950	6.29	185	6.77	1.11	24.3	5	clear

ending TD = 24.18

AFCEE FORM WD.0

652 180

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET _____ of _____

PROJECT NAME: ADC 2 RFI PROJECT NO.: 138681 DATE: 12/3/97
 LOCATION: WCHMHTAOII DATE INSTALLED: 11/17/97
 TOTAL DEPTH (FTOC) 22' CASING DIAMETER 2"

METHODS OF DEVELOPMENT

Swabbing Bailing Pumping Describe Circulated w/ surging
 Equipment decontaminated prior to development Yes NO
 Describe _____

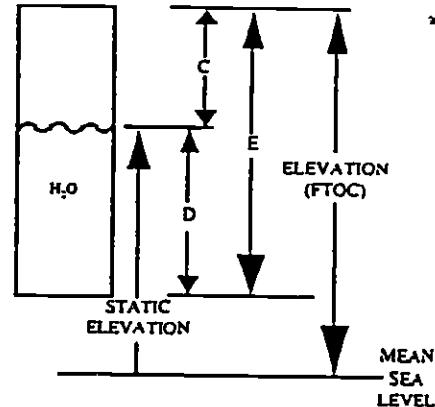
EQUIPMENT NUMBERS: HORIBA # 3645 MINIRAE # 3556
 pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION

Measured Well Depth (B) 22.01 ft.
 Measured Water Level Depth (C) 12.25 ft.
 Length of Stanc Water Column (D) (B) - (C) = 9.76 ft.
 Casing Water Volume (E) + (A) x (D) = 1.56 gal
 Total Purge Volume = 370 (gal)



Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/Sand (ppm)	Comments
12/3	1210	12.25	10	6.70	1.06	22.7	999	DVM = 0.0 ppm; brown w/ sediment +
12/3	1230		100	6.68	1.15	23.7	999	brown
12/3	1255		200	6.72	1.17	22.3	999	brown
12/3	1320		280	6.76	1.08	23.3	584	clearing
12/3	1325		330	6.81	1.05	23.4	84	clear
12/3	1330		350	6.83	1.05	23.5	26	clear
12/3	1335	12.26	370	6.77	1.06	23.8	19	clear TD = 22.02

652-181

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID
SHEET 1 of 1

PROJECT NAME: ADCZ RFI PROJECT NO.: 138681 DATE: 12/2/97
 LOCATION: WCHMHTAD12 DATE INSTALLED: 11/21/97
 TOTAL DEPTH (FTOC) 18.80 CASING DIAMETER 2"

METHODS OF DEVELOPMENT

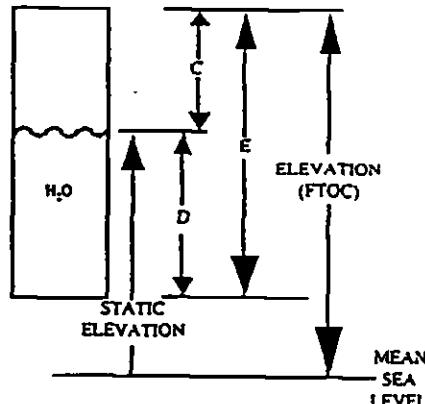
Swabbing Bailing Pumping Describe combined w/surging
 Equipment decontaminated prior to development Yes No

Describe _____

EQUIPMENT NUMBERS: Horiba # 3645 Multilac # 3556
 pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:Measured Well Depth (B) 18.80 ft.Measured Water Level Depth (C) 13.74 ft.Length of Static Water Column (D) (B) - (C) = 5.06 ft.Casing Water Volume (E) = (A) x (D) = 0.81 galTotal Purge Volume = 390 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/2	0818	14.25	0.5	4.75	1.33	22.0	413	Casing full of H2O; OVM=0.0 ppm, brown water full of sediment
12/2	0840	~16.0	27	6.07	1.34	22.6	999	brown
12/2	0855	"	52	4.86	1.29	23.7	999	brown
12/2	0915	"	85	5.70	1.32	23.8	999	brown
12/2	0930	"	115	5.71	1.30	23.9	999	"
12/2	0955	"	160	5.53	1.30	23.8	999	"
12/3	0745	13.78	202	10.30	0.45	18.1	999	OVM=0.0 ppm, brown
12/3	0810	top of pump	255	9.30	0.90	22.0	999	w/sediment
12/3	0825	"	205	4.78	1.16	22.8	230	
12/3	0840	"	34.5	6.22	1.23	23.5	10	
12/3	0855	"	390	6.25	1.26	23.3	10	

TD = 19.09'

AFCEE FORM WD.0

Ending WL = 13.96

Ending TD = 19.09

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID _____
SHEET 1 of 1

PROJECT NAME AOC 2 RF1 PROJECT NO.: 138681
 LOCATION: WICHITA FALLS DATE INSTALLED: 12/1/97
 TOTAL DEPTH (FTOC) 18.5 CASING DIAMETER 2"

METHODS OF DEVELOPMENT

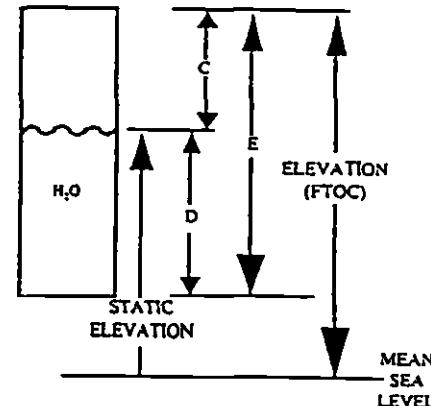
Swabbing Bailing
 Equipment decontaminated prior to development

YES 12/1/97 Pumping Describe Pumping combined w/ purging
 NA Yes NO Disposable equipment

EQUIPMENT NUMBERS: Horiba Multi meter # C-100066; 3645 MiniRae #3556
 pH Meter _____ EC Meter _____ Turbidity Meter _____ Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION.Measured Well Depth (B) 18.01 ft.Measured Water Level Depth (C) 17.15 ft.Length of Static Water Column (D) (B) - (C) = 1.76 ft.Casing Water Volume (E) .16 - .17 - .28 galTotal Purge Volume = 2 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	MS/cm	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/1/97 1438		17.10	not sufficient water to pump will return to bail well					OVM = 0.0 ppm
12/1/97 1530		17.14	.05	7.87	3.30	20	260	OVM = 0.0 ppm
12/1/97 1600		18.35	1.0	8.64	3.23	21	70	clear
12/1/97 1643		18.68	2.0	9.25	3.14	20	4	clear

WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID
SHEET 1 of 1

PROJECT NAME: AOC2 RFI PROJECT NO.: 138681 DATE: 12/10/97
 LOCATION: WCHM HTAO 150^{ft} DATE INSTALLED: 11/20/97
 TOTAL DEPTH (FTOC) 12.5' CASING DIAMETER 2"

METHODS OF DEVELOPMENT Swabbing Bailing Pumping Describe _____Equipment decontaminated prior to development
Describe _____NA Yes NO disposable equipmentEQUIPMENT NUMBERS

pH Meter _____

EC Meter _____

Hariba # 3645

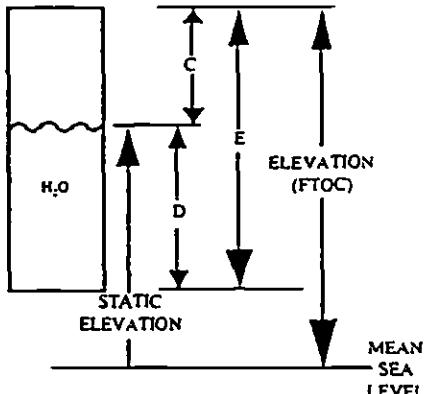
Minirae # 3556

Turbidity Meter _____

Thermometer _____

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:Measured Well Depth (B) 11.97 ft.Measured Water Level Depth (C) 10.93 ft.Length of Static Water Column (D) (B) - (C) = 1.04 ft.Casing Water Volume (E) (A) \times (D) = 0.04 galTotal Purge Volume = 0.5 (gal)

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pH	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
12/10	1332	10.93						0.04 = 0 ppm
								* bailed ~ 0.5 gal. out of well, then dry

TAB

APPENDIX D AQUIFER TEST RESULTS

CH2M HILL
**SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL
 HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD**

Well ID. GMI-22-02M

Value

1.00

Radius of casing, r_c (in.)
 Radius to undisturbed aquifer, R_w (in.)

Length of well submergence, L_w (ft)

Length of submerged screen, L_e (ft)

(if $L_w < L_e$, let $L_e = L_w$)

Height of water in aquifer, H (ft)

Initial (max) water level drawdown
 from static, $y(0)$ (ft) / y-intercept)

0.20

0.201

If $L_w \gg L_e$, porosity, n , of the gravel/sandpack must
 be accounted for in the radius of the casing, r_c
 (if porosity unknown, type "ND")

Porosity of sandpack, n (fraction)

(if porosity unknown, type "ND")

Adjusted radius of casing, r'_c

$r'_c = ((1-n)c^2 + n(R_w^2))^{1/2}$

r'_c (ft) = 0.201

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$K = (r'_c)^2 \ln(R_e/R_w) / (2\pi t) (1/n)(y(0)/t)$

where

t = time (min)

y = drawdown from static water level

R_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(R_e/R_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$\ln(R_e/R_w) = (1 / \ln(L_w/R_w)) + (A + B \ln((H - L_w) / R_w))^{-1}$

where A and B are obtained from data curves

$A =$

$B =$

$C =$ 3.00

If the well is fully penetrating

$\ln(R_e/R_w) = (1 / \ln(L_w/R_w)) + C / (L_w / R_w)^{1/2}$

where C is obtained from a data curve

$L_w / R_w =$ 60

Since the well is fully penetrating $\ln(R_e/R_w) =$ 2.95

From the semilog drawdown vs. time plot

Y-intercept, $y(0)$ (feet) = 2.30

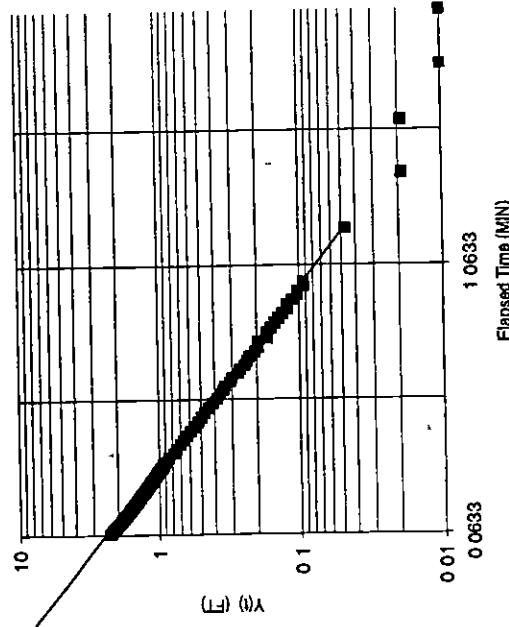
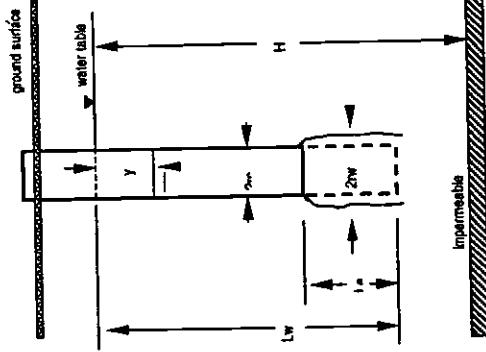
Y-value, $y(t)$ at time, t , (feet) = 0.41

Time, t (min) = 0.55

Solving for horizontal hydraulic conductivity, K .

$K =$ 107E-01 ft/day $K =$ 3.79E-03 cm/s

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w$ - i.e., a double straight-line effect may be noted in the water level response curve



File Gm02.xls

SE100 0C
 Environmental Logger
 01/23 1 7:51

Unit# 0001 Test 5

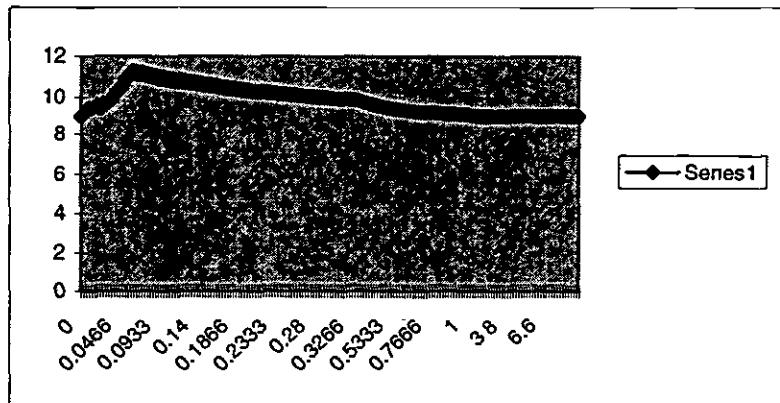
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 8.96
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 11:51:21

Elapsed Ti INPUT 1



0	8.95	0	0
0.0033	9.062	0.0033	0.112
0.0066	9.267	0.0066	0.317
0.01	9.425	0.01	0.475
0.0133	9.397	0.0133	0.447
0.0166	9.537	0.0166	0.587
0.02	9.593	0.02	0.643
0.0233	9.36	0.0233	0.41
0.0266	9.677	0.0266	0.727
0.03	9.621	0.03	0.671
0.0333	9.76	0.0333	0.81
0.0366	9.816	0.0366	0.866
0.04	10.133	0.04	1.183
0.0433	10.291	0.0433	1.341
0.0466	10.403	0.0466	1.453
0.05	10.626	0.05	1.676
0.0533	10.942	0.0533	1.992
0.0566	11.036	0.0566	2.086
0.06	11.24	0.06	2.29
0.0633	11.25	0.0633	2.3
0.0666	11.222	0.0666	2.272
0.07	11.194	0.07	2.244
0.0733	11.184	0.0733	2.234
0.0766	11.147	0.0766	2.197
0.08	11.129	0.08	2.179
0.0833	11.091	0.0833	2.141
0.0866	11.063	0.0866	2.113
0.09	11.036	0.09	2.086
0.0933	11.017	0.0933	2.067

0.0966	10.98	0.0966	2.03
0.1	10.97	0.1	2.02
0.1033	10.915	0.1033	1.965
0.1066	10.915	0.1066	1.965
0.11	10.877	0.11	1.927
0.1133	10.849	0.1133	1.899
0.1166	10.84	0.1166	1.89
0.12	10.812	0.12	1.862
0.1233	10.794	0.1233	1.844
0.1266	10.766	0.1266	1.816
0.13	10.747	0.13	1.797
0.1333	10.728	0.1333	1.778
0.1366	10.71	0.1366	1.76
0.14	10.682	0.14	1.732
0.1433	10.663	0.1433	1.713
0.1466	10.645	0.1466	1.695
0.15	10.617	0.15	1.667
0.1533	10.607	0.1533	1.657
0.1566	10.589	0.1566	1.639
0.16	10.57	0.16	1.62
0.1633	10.552	0.1633	1.602
0.1666	10.533	0.1666	1.583
0.17	10.514	0.17	1.564
0.1733	10.486	0.1733	1.536
0.1766	10.477	0.1766	1.527
0.18	10.458	0.18	1.508
0.1833	10.449	0.1833	1.499
0.1866	10.421	0.1866	1.471
0.19	10.412	0.19	1.462
0.1933	10.384	0.1933	1.434
0.1966	10.375	0.1966	1.425
0.2	10.356	0.2	1.406
0.2033	10.347	0.2033	1.397
0.2066	10.319	0.2066	1.369
0.21	10.31	0.21	1.36
0.2133	10.3	0.2133	1.35
0.2166	10.291	0.2166	1.341
0.22	10.263	0.22	1.313
0.2233	10.254	0.2233	1.304
0.2266	10.235	0.2266	1.285
0.23	10.216	0.23	1.266
0.2333	10.207	0.2333	1.257
0.2366	10.189	0.2366	1.239
0.24	10.179	0.24	1.229
0.2433	10.161	0.2433	1.211
0.2466	10.161	0.2466	1.211
0.25	10.133	0.25	1.183
0.2533	10.123	0.2533	1.173
0.2566	10.114	0.2566	1.164
0.26	10.096	0.26	1.146
0.2633	10.077	0.2633	1.127
0.2666	10.068	0.2666	1.118

0.27	10.049	0.27	1.099
0.2733	10.04	0.2733	1.09
0.2766	10.03	0.2766	1.08
0.28	10.03	0.28	1.08
0.2833	10.002	0.2833	1.052
0.2866	9.993	0.2866	1.043
0.29	9.984	0.29	1.034
0.2933	9.975	0.2933	1.025
0.2966	9.965	0.2966	1.015
0.3	9.956	0.3	1.006
0.3033	9.937	0.3033	0.987
0.3066	9.928	0.3066	0.978
0.31	9.919	0.31	0.969
0.3133	9.9	0.3133	0.95
0.3166	9.891	0.3166	0.941
0.32	9.872	0.32	0.922
0.3233	9.872	0.3233	0.922
0.3266	9.872	0.3266	0.922
0.33	9.853	0.33	0.903
0.3333	9.844	0.3333	0.894
0.35	9.798	0.35	0.848
0.3666	9.732	0.3666	0.782
0.3833	9.695	0.3833	0.745
0.4	9.649	0.4	0.699
0.4166	9.611	0.4166	0.661
0.4333	9.574	0.4333	0.624
0.45	9.537	0.45	0.587
0.4666	9.509	0.4666	0.559
0.4833	9.472	0.4833	0.522
0.5	9.444	0.5	0.494
0.5166	9.416	0.5166	0.466
0.5333	9.388	0.5333	0.438
0.55	9.36	0.55	0.41
0.5666	9.332	0.5666	0.382
0.5833	9.313	0.5833	0.363
0.6	9.295	0.6	0.345
0.6166	9.285	0.6166	0.335
0.6333	9.258	0.6333	0.308
0.65	9.248	0.65	0.298
0.6666	9.22	0.6666	0.27
0.6833	9.211	0.6833	0.261
0.7	9.192	0.7	0.242
0.7166	9.183	0.7166	0.233
0.7333	9.174	0.7333	0.224
0.75	9.155	0.75	0.205
0.7666	9.146	0.7666	0.196
0.7833	9.146	0.7833	0.196
0.8	9.118	0.8	0.168
0.8166	9.118	0.8166	0.168
0.8333	9.109	0.8333	0.159
0.85	9.099	0.85	0.149
0.8666	9.09	0.8666	0.14

0.8833	9.081	0.8833	0.131
0.9	9.071	0.9	0.121
0.9166	9.071	0.9166	0.121
0.9333	9.062	0.9333	0.112
0.95	9.053	0.95	0.103
0.9666	9.053	0.9666	0.103
0.9833	9.043	0.9833	0.093
1	9.043	1	0.093
1.2	8.997	1.2	0.047
1.4	8.969	1.4	0.019
1.6	8.969	1.6	0.019
1.8	8.96	1.8	0.01
2	8.96	2	0.01
2.2	8.95	2.2	0
2.4	8.95	2.4	0
2.6	8.95	2.6	0
2.8	8.96	2.8	0.01
3	8.95	3	0
3.2	8.95	3.2	0
3.4	8.96	3.4	0.01
3.6	8.96	3.6	0.01
3.8	8.95	3.8	0
4	8.96	4	0.01
4.2	8.96	4.2	0.01
4.4	8.95	4.4	0
4.6	8.96	4.6	0.01
4.8	8.95	4.8	0
5	8.96	5	0.01
5.2	8.95	5.2	0
5.4	8.96	5.4	0.01
5.6	8.96	5.6	0.01
5.8	8.96	5.8	0.01
6	8.95	6	0
6.2	8.95	6.2	0
6.4	8.96	6.4	0.01
6.6	8.95	6.6	0
6.8	8.95	6.8	0
7	8.95	7	0
7.2	8.96	7.2	0.01
7.4	8.96	7.4	0.01
7.6	8.96	7.6	0.01
7.8	8.95	7.8	0
8	8.96	8	0.01
8.2	8.96	8.2	0.01
8.4	8.96	8.4	0.01
8.6	8.95	8.6	0
8.8	8.95	8.8	0
9	8.96	9	0.01
9.2	8.95	9.2	0

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWNER & RICE METHOD

Well ID: GMI-22-03M

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submerged, L_w (ft)	14.62
Length of submerged screen, L_s (ft)	20.00
(If $L_w < L_s$, let $L_s = L_w$)	
Height of water in aquifer, H (ft)	14.62
Initial (max) water level drawdown from static, $y(0)$ (ft) (y -intercept)	0.97
If $L_w < L_s$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c .	0.20
Porosity of sandpack, n (fraction)	
(If porosity unknown, type 'ND')	
Adjusted radius of casing, r'_c	
$r'_c = [(1-n)r_c^2 + n(w'^2)]^{1/2}$	0.201
r'_c (ft) =	

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as.

$$K = [r_c''^2 \ln(Re/r_w) / 2\pi] (1/t) [\ln(y(0)/y(t))]$$

where
 t = time (min)
 y = drawdown from static water level

R_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(R_e/r_w)$ depends on the penetration of the well into the aquifer.

If the well is partially penetrating ($L_w < H$)

$$\ln(R_e/r_w) = (1.1 / \ln(L_w/r_w)) + (A + B \ln(H - L_w) / r_w) (L_w / r_w)^{0.5}$$

where A and B are obtained from data curves

$$L_w / r_w = 48$$

$$L_s / r_w = 48$$

====> If the well is fully penetrating

$$\ln(R_e/r_w) = (1.1 / \ln(L_w/r_w)) + C (L_w / r_w)^{-1}$$

where C is obtained from a data curve

$$L_w / r_w = 48$$

$$C = 2.63$$

Since the well is fully penetrating

$$\ln(R_e/r_w) = 2.75$$

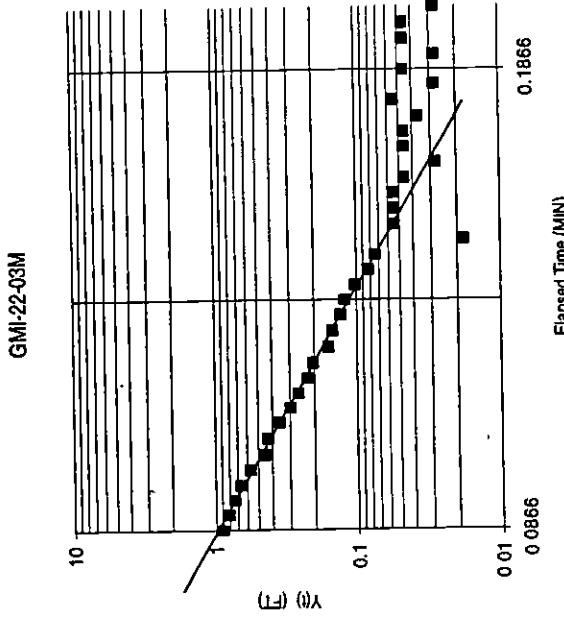
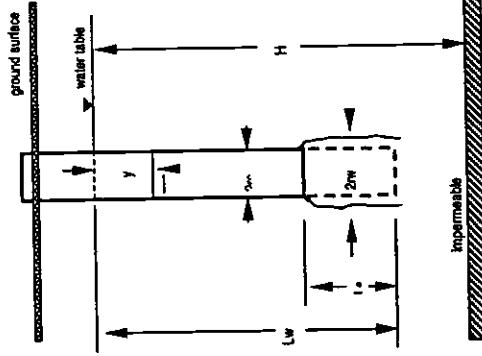
From the semi-log drawdown vs time plot

Y-intercept, $y(0)$ (feet) =	0.97
Y-value, $y(t)$, at time, t , (feet) =	0.26
Time, t (min) =	0.14

Solving for horizontal hydraulic conductivity, K

$$K = 1.35E-02 \text{ cm/s}$$

If the maximum (final) drawdown is below the level of the well screen, $y(t) > L_w$. I.e., a double straight-line effect may be noted in the water level response curve.



SE100 OC
 Environmental Logger
 01/21 1 3:29

Unit# 0001 Test 9

Setups: INPUT 1

Type Level (F)
 Mode TOC

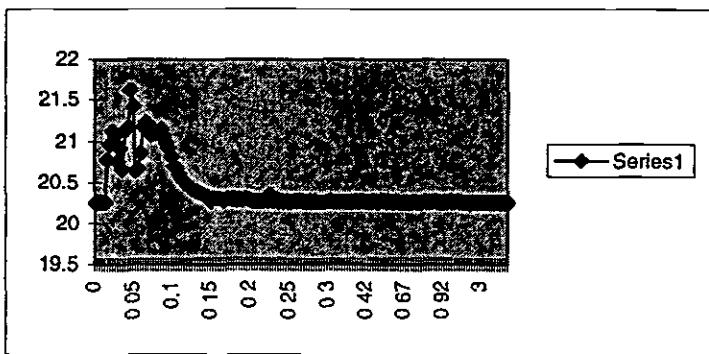
I.D. 923

Reference 20.28
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 10:48:59

Elapsed Tii INPUT 1

0	20.252	0	0
0.0033	20.261	0.0033	0.009
0.0066	20.261	0.0066	0.009
0.01	20.252	0.01	0
0.0133	20.252	0.0133	0
0.0166	20.782	0.0166	0.53
0.02	20.968	0.02	0.716
0.0233	21.116	0.0233	0.864
0.0266	21.07	0.0266	0.818
0.03	20.763	0.03	0.511
0.0333	20.921	0.0333	0.669
0.0366	20.661	0.0366	0.409
0.04	21.144	0.04	0.892
0.0433	21.163	0.0433	0.911
0.0466	21.618	0.0466	1.366
0.05	21.414	0.05	1.162
0.0533	20.642	0.0533	0.39
0.0566	20.67	0.0566	0.418
0.06	20.865	0.06	0.613
0.0633	21.172	0.0633	0.92
0.0666	21.218	0.0666	0.966
0.07	21.181	0.07	0.929
0.0733	21.079	0.0733	0.827
0.0766	21.135	0.0766	0.883
0.08	21.098	0.08	0.846
0.0833	21.116	0.0833	0.864
0.0866	21.144	0.0866	0.892
0.09	21.06	0.09	0.808
0.0933	20.986	0.0933	0.734



0.0966	20.921	0.0966	0.669
0.1	20.819	0.1	0.567
0.1033	20.698	0.1033	0.446
0.1066	20.679	0.1066	0.427
0.11	20.605	0.11	0.353
0.1133	20.549	0.1133	0.297
0.1166	20.512	0.1166	0.26
0.12	20.475	0.12	0.223
0.1233	20.456	0.1233	0.204
0.1266	20.41	0.1266	0.158
0.13	20.4	0.13	0.148
0.1333	20.382	0.1333	0.13
0.1366	20.373	0.1366	0.121
0.14	20.354	0.14	0.102
0.1433	20.335	0.1433	0.083
0.1466	20.326	0.1466	0.074
0.15	20.27	0.15	0.018
0.1533	20.307	0.1533	0.055
0.1566	20.307	0.1566	0.055
0.16	20.307	0.16	0.055
0.1633	20.298	0.1633	0.046
0.1666	20.28	0.1666	0.028
0.17	20.298	0.17	0.046
0.1733	20.298	0.1733	0.046
0.1766	20.289	0.1766	0.037
0.18	20.307	0.18	0.055
0.1833	20.28	0.1833	0.028
0.1866	20.298	0.1866	0.046
0.19	20.28	0.19	0.028
0.1933	20.298	0.1933	0.046
0.1966	20.298	0.1966	0.046
0.2	20.28	0.2	0.028
0.2033	20.27	0.2033	0.018
0.2066	20.27	0.2066	0.018
0.21	20.27	0.21	0.018
0.2133	20.27	0.2133	0.018
0.2166	20.27	0.2166	0.018
0.22	20.307	0.22	0.055
0.2233	20.27	0.2233	0.018
0.2266	20.345	0.2266	0.093
0.23	20.27	0.23	0.018
0.2333	20.298	0.2333	0.046
0.2366	20.261	0.2366	0.009
0.24	20.27	0.24	0.018
0.2433	20.261	0.2433	0.009
0.2466	20.27	0.2466	0.018
0.25	20.261	0.25	0.009
0.2533	20.261	0.2533	0.009
0.2566	20.27	0.2566	0.018
0.26	20.27	0.26	0.018
0.2633	20.27	0.2633	0.018
0.2666	20.27	0.2666	0.018

0.27	20.261	0.27	0.009
0.2733	20.261	0.2733	0.009
0.2766	20.27	0.2766	0.018
0.28	20.261	0.28	0.009
0.2833	20.27	0.2833	0.018
0.2866	20.261	0.2866	0.009
0.29	20.261	0.29	0.009
0.2933	20.261	0.2933	0.009
0.2966	20.261	0.2966	0.009
0.3	20.261	0.3	0.009
0.3033	20.27	0.3033	0.018
0.3066	20.261	0.3066	0.009
0.31	20.261	0.31	0.009
0.3133	20.261	0.3133	0.009
0.3166	20.261	0.3166	0.009
0.32	20.261	0.32	0.009
0.3233	20.261	0.3233	0.009
0.3266	20.261	0.3266	0.009
0.33	20.261	0.33	0.009
0.3333	20.261	0.3333	0.009
0.35	20.27	0.35	0.018
0.3666	20.261	0.3666	0.009
0.3833	20.27	0.3833	0.018
0.4	20.27	0.4	0.018
0.4166	20.261	0.4166	0.009
0.4333	20.261	0.4333	0.009
0.45	20.261	0.45	0.009
0.4666	20.27	0.4666	0.018
0.4833	20.261	0.4833	0.009
0.5	20.261	0.5	0.009
0.5166	20.27	0.5166	0.018
0.5333	20.27	0.5333	0.018
0.55	20.261	0.55	0.009
0.5666	20.27	0.5666	0.018
0.5833	20.261	0.5833	0.009
0.6	20.261	0.6	0.009
0.6166	20.27	0.6166	0.018
0.6333	20.261	0.6333	0.009
0.65	20.252	0.65	0
0.6666	20.261	0.6666	0.009
0.6833	20.261	0.6833	0.009
0.7	20.252	0.7	0
0.7166	20.261	0.7166	0.009
0.7333	20.27	0.7333	0.018
0.75	20.261	0.75	0.009
0.7666	20.261	0.7666	0.009
0.7833	20.261	0.7833	0.009
0.8	20.27	0.8	0.018
0.8166	20.261	0.8166	0.009
0.8333	20.261	0.8333	0.009
0.85	20.261	0.85	0.009
0.8666	20.27	0.8666	0.018

0.8833	20.261	0.8833	0.009
0.9	20.252	0.9	0
0.9166	20.252	0.9166	0
0.9333	20.261	0.9333	0.009
0.95	20.261	0.95	0.009
0.9666	20.27	0.9666	0.018
0.9833	20.261	0.9833	0.009
1	20.261	1	0.009
1.2	20.27	1.2	0.018
1.4	20.261	1.4	0.009
1.6	20.252	1.6	0
1.8	20.252	1.8	0
2	20.252	2	0
2.2	20.242	2.2	-0.01
2.4	20.261	2.4	0.009
2.6	20.252	2.6	0
2.8	20.252	2.8	0
3	20.252	3	0
3.2	20.252	3.2	0
3.4	20.261	3.4	0.009
3.6	20.252	3.6	0
3.8	20.252	3.8	0
4	20.252	4	0
4.2	20.261	4.2	0.009
4.4	20.252	4.4	0
4.6	20.252	4.6	0
4.8	20.252	4.8	0
5	20.252	5	0
5.2	20.252	5.2	0

CH2M Hill
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: GMI-22-04M

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	5.00
Length of well submerged screen, Lw (ft)	6.02
(If $Lw < Ls$, let $Ls = Lw$)	10.00
Height of water in Aquifer, H (ft)	6.02
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	2.30
r_c (ft) =	0.20

If $Lw < Ls$, the porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, n (fraction)	0.20
--------------------------------------	------

(if porosity unknown, type 'ND')

Adjusted radius of casing, r'_c

$$r'_c = \{(1-n)r_c^2 + n(r_w^2)^{1/2}\}^{1/2}$$

r'_c (ft) =	0.201
---------------	-------

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$$K = (r'_c)^2 \ln(r_e/r_w) / (2\pi t) \ln(y(0)/y(t))$$

where
 t = time (min)

y = drawdown from static water level

r_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(r_e/r_w)$ depends on the penetration of the well into the aquifer:

If the well is partially penetrating ($Lw < H$)

$$\ln(r_e/r_w) = (1 / Lw) \ln(Lw) + (A + B \ln(H - Lw) / (Lw / rw))^{1/2} - 1$$

where A and B are obtained from data curves

$$Lw / rw = 24$$

$$Lw / rw = 24$$

=====> If the well is fully penetrating

$$\ln(r_e/r_w) = (1 / Lw) \ln(Lw) + C / (Lw / rw)^{1/2} - 1$$

where C is obtained from a data curve

$$C = 178$$

Since the well is fully penetrating,

$$\ln(r_e/r_w) = 2.06$$

From the semi-log drawdown vs time plot

$$Y\text{-intercept, } y(0) \text{ (feet)} = 2.30$$

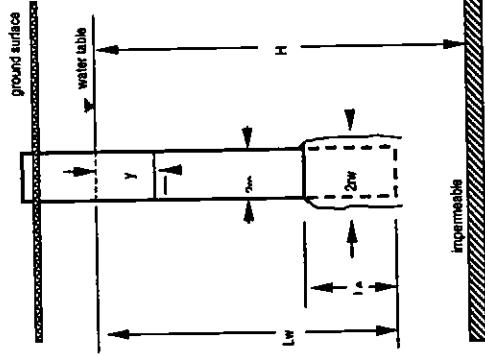
$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (feet)} = 0.39$$

$$\text{Time, } t \text{ (min)} = 0.31$$

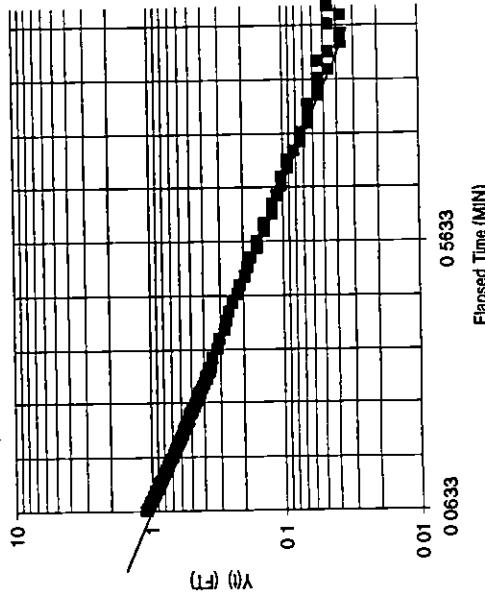
Solving for horizontal hydraulic conductivity, K ,

$$K = 3.38E-01 \text{ ft/day} \quad K = 1.19E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw$. A double straight-line effect may be noted in the water level response curve



GMI-22-04M



SE100 OC
 Environmental Logger
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Unit# 0001 Test 17

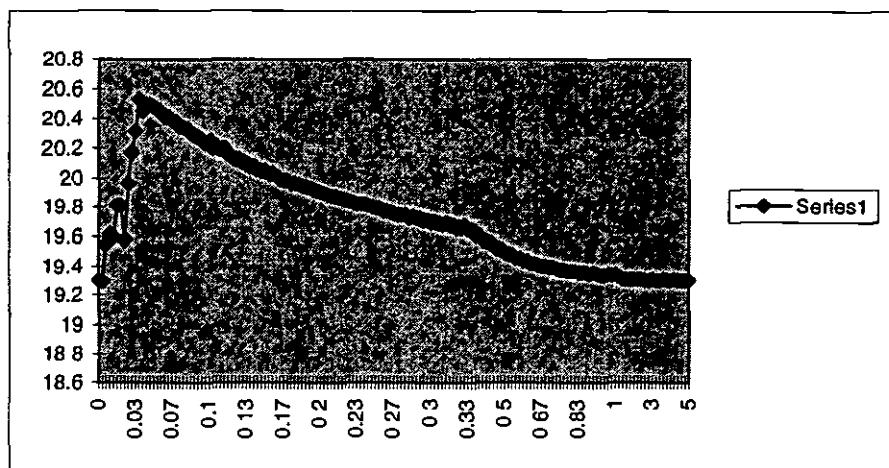
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 19.33
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 11:48:33

Elapsed Ti INPUT 1



0	19.302	0	0
0.0033	19.292	0.0033	-0.01
0.0066	19.552	0.0066	0.25
0.01	19.617	0.01	0.315
0.0133	19.599	0.0133	0.297
0.0166	19.812	0.0166	0.51
0.02	19.812	0.02	0.51
0.0233	19.58	0.0233	0.278
0.0266	19.969	0.0266	0.667
0.03	20.173	0.03	0.871
0.0333	20.313	0.0333	1.011
0.0366	20.535	0.0366	1.233
0.04	20.452	0.04	1.15
0.0433	20.498	0.0433	1.196
0.0466	20.498	0.0466	1.196
0.05	20.479	0.05	1.177
0.0533	20.461	0.0533	1.159
0.0566	20.442	0.0566	1.14
0.06	20.414	0.06	1.112
0.0633	20.414	0.0633	1.112
0.0666	20.387	0.0666	1.085
0.07	20.377	0.07	1.075
0.0733	20.35	0.0733	1.048
0.0766	20.34	0.0766	1.038
0.08	20.331	0.08	1.029
0.0833	20.303	0.0833	1.001
0.0866	20.285	0.0866	0.983
0.09	20.275	0.09	0.973
0.0933	20.257	0.0933	0.955

0.0966	20.238	0.0966	0.936
0.1	20.248	0.1	0.946
0.1033	20.201	0.1033	0.899
0.1066	20.211	0.1066	0.909
0.11	20.192	0.11	0.89
0.1133	20.201	0.1133	0.899
0.1166	20.164	0.1166	0.862
0.12	20.146	0.12	0.844
0.1233	20.127	0.1233	0.825
0.1266	20.127	0.1266	0.825
0.13	20.109	0.13	0.807
0.1333	20.099	0.1333	0.797
0.1366	20.081	0.1366	0.779
0.14	20.081	0.14	0.779
0.1433	20.062	0.1433	0.76
0.1466	20.053	0.1466	0.751
0.15	20.053	0.15	0.751
0.1533	20.034	0.1533	0.732
0.1566	20.034	0.1566	0.732
0.16	20.016	0.16	0.714
0.1633	19.997	0.1633	0.695
0.1666	19.988	0.1666	0.686
0.17	19.988	0.17	0.686
0.1733	19.969	0.1733	0.667
0.1766	19.969	0.1766	0.667
0.18	19.96	0.18	0.658
0.1833	19.951	0.1833	0.649
0.1866	19.942	0.1866	0.64
0.19	19.932	0.19	0.63
0.1933	19.923	0.1933	0.621
0.1966	19.914	0.1966	0.612
0.2	19.905	0.2	0.603
0.2033	19.895	0.2033	0.593
0.2066	19.886	0.2066	0.584
0.21	19.877	0.21	0.575
0.2133	19.877	0.2133	0.575
0.2166	19.867	0.2166	0.565
0.22	19.858	0.22	0.556
0.2233	19.849	0.2233	0.547
0.2266	19.84	0.2266	0.538
0.23	19.83	0.23	0.528
0.2333	19.821	0.2333	0.519
0.2366	19.821	0.2366	0.519
0.24	19.821	0.24	0.519
0.2433	19.812	0.2433	0.51
0.2466	19.802	0.2466	0.5
0.25	19.793	0.25	0.491
0.2533	19.793	0.2533	0.491
0.2566	19.775	0.2566	0.473
0.26	19.775	0.26	0.473
0.2633	19.765	0.2633	0.463
0.2666	19.756	0.2666	0.454

0.27	19.747	0.27	0.445
0.2733	19.747	0.2733	0.445
0.2766	19.747	0.2766	0.445
0.28	19.728	0.28	0.426
0.2833	19.738	0.2833	0.436
0.2866	19.728	0.2866	0.426
0.29	19.719	0.29	0.417
0.2933	19.71	0.2933	0.408
0.2966	19.71	0.2966	0.408
0.3	19.7	0.3	0.398
0.3033	19.7	0.3033	0.398
0.3066	19.691	0.3066	0.389
0.31	19.682	0.31	0.38
0.3133	19.691	0.3133	0.389
0.3166	19.682	0.3166	0.38
0.32	19.673	0.32	0.371
0.3233	19.663	0.3233	0.361
0.3266	19.663	0.3266	0.361
0.33	19.673	0.33	0.371
0.3333	19.654	0.3333	0.352
0.35	19.645	0.35	0.343
0.3666	19.617	0.3666	0.315
0.3833	19.608	0.3833	0.306
0.4	19.58	0.4	0.278
0.4166	19.571	0.4166	0.269
0.4333	19.561	0.4333	0.259
0.45	19.543	0.45	0.241
0.4666	19.524	0.4666	0.222
0.4833	19.515	0.4833	0.213
0.5	19.496	0.5	0.194
0.5166	19.487	0.5166	0.185
0.5333	19.478	0.5333	0.176
0.55	19.459	0.55	0.157
0.5666	19.459	0.5666	0.157
0.5833	19.441	0.5833	0.139
0.6	19.441	0.6	0.139
0.6166	19.422	0.6166	0.12
0.6333	19.422	0.6333	0.12
0.65	19.413	0.65	0.111
0.6666	19.404	0.6666	0.102
0.6833	19.404	0.6833	0.102
0.7	19.394	0.7	0.092
0.7166	19.394	0.7166	0.092
0.7333	19.385	0.7333	0.083
0.75	19.376	0.75	0.074
0.7666	19.376	0.7666	0.074
0.7833	19.367	0.7833	0.065
0.8	19.367	0.8	0.065
0.8166	19.367	0.8166	0.065
0.8333	19.357	0.8333	0.055
0.85	19.357	0.85	0.055
0.8666	19.357	0.8666	0.055

0.8833	19.348	0.8833	0.046
0.9	19.357	0.9	0.055
0.9166	19.348	0.9166	0.046
0.9333	19.339	0.9333	0.037
0.95	19.339	0.95	0.037
0.9666	19.348	0.9666	0.046
0.9833	19.339	0.9833	0.037
1	19.348	1	0.046
1.2	19.33	1.2	0.028
1.4	19.311	1.4	0.009
1.6	19.311	1.6	0.009
1.8	19.311	1.8	0.009
2	19.311	2	0.009
2.2	19.311	2.2	0.009
2.4	19.311	2.4	0.009
2.6	19.302	2.6	0
2.8	19.302	2.8	0
3	19.311	3	0.009
3.2	19.302	3.2	0
3.4	19.302	3.4	0
3.6	19.311	3.6	0.009
3.8	19.302	3.8	0
4	19.302	4	0
4.2	19.311	4.2	0.009
4.4	19.302	4.4	0
4.6	19.302	4.6	0
4.8	19.302	4.8	0
5	19.302	5	0

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: GMI-22-05M

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	2.87
Length of submerged screen, L_s (ft)	5.00
// $L_w < L_s$, let $L_o = L_w$	
Height of water in aquifer, H (ft)	2.87
Initial (max) water level drawdown from static, $y(0)$ (ft) / y-intercept	0.36

If $L_w \ll L_o$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, n (fraction) (if porosity unknown, type "NCD")	0.20
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Adjusted radius of casing, r_c'

$$(r_c' = ((1-n)r_c^2 + n(r_w^2))^{1/2})$$

$r_c'(ft) =$	0.201
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From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$$K = [(r_c'^2 \ln(r_e/r_w)) / (2L_o)] (1/t) [\ln(y(0)/y(t))]$$

where:
 t = time (min)
 y = drawdown from static water level
 R_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(R_e/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$),

$$\ln(R_e/r_w) = (1 / \ln(L_w/r_w)) + (A + B \ln((H - L_w) / r_w) / (L_o / r_w))^{1/2} - 1$$

where A and B are obtained from data curves

$$\begin{aligned} L_o / r_w &= 12 \\ L_o / r_w &= 12 \end{aligned}$$

$$\ln(R_e/r_w) = (1 / \ln(L_w/r_w)) + C / (L_o / r_w)^{1/2} - 1$$

Where C is obtained from a data curve

$$\begin{aligned} L_o / r_w &= 12 \\ C &= 132 \end{aligned}$$

Since the well is fully penetrating

$\ln(R_e/r_w) =$	1.47
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From the semi-log drawdown vs time plot:

Y-intercept, $y(0)$ (feet) =

Y-value, $y(t)$, at time, t , (feet) =

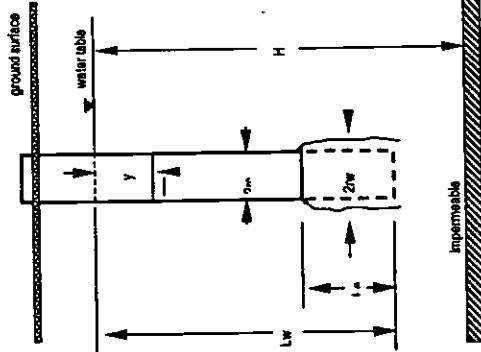
Time, t (min) =

Solving for horizontal hydraulic conductivity, K ,

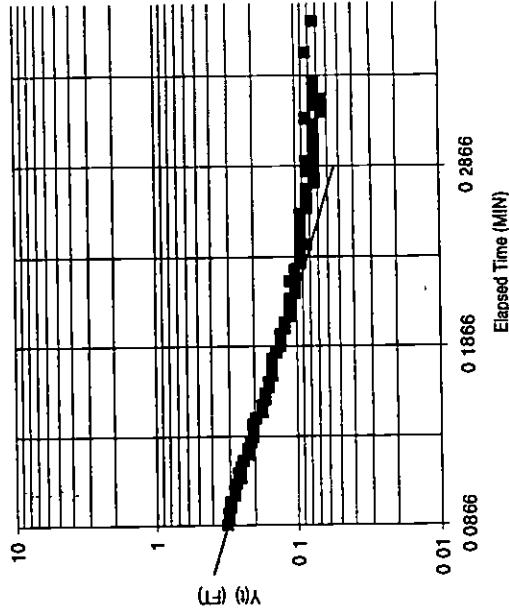
$$K = 4.68E+01 \text{ ft/day}$$

$K =$	1.65E-02 cm/s
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If the maximum (final) drawdown is below the level of the well screen, $y(t) > L_w - L_o$, a double straight-line effect may be noted in the water level response curve



GMI-22-05M



652 201

SE100 0C
 Environmental Logger
 01/21 1 7:11

Unit# 0001 Test 3

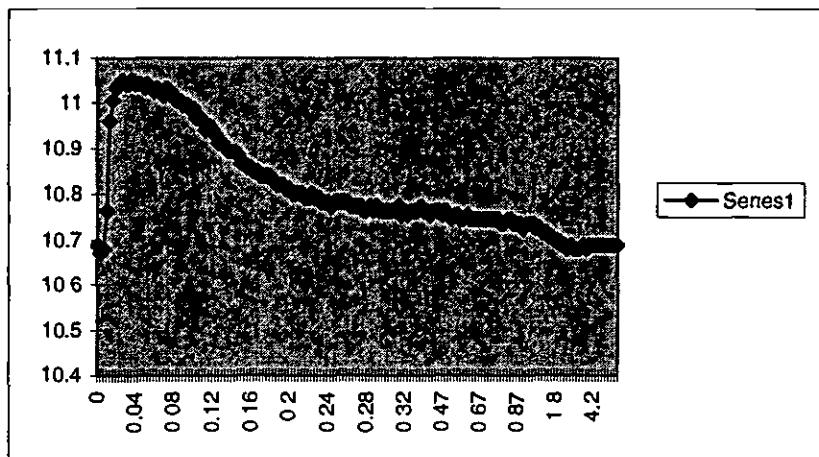
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 10.7
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 16:07:45

Elapsed T: INPUT 1



0	10.69	0	0
0.0033	10.672	0.0033	-0.018
0.0066	10.681	0.0066	-0.009
0.01	10.764	0.01	0.074
0.0133	10.959	0.0133	0.269
0.0166	11.005	0.0166	0.315
0.02	11.033	0.02	0.343
0.0233	11.042	0.0233	0.352
0.0266	11.052	0.0266	0.362
0.03	11.042	0.03	0.352
0.0333	11.042	0.0333	0.352
0.0366	11.052	0.0366	0.362
0.04	11.042	0.04	0.352
0.0433	11.042	0.0433	0.352
0.0466	11.042	0.0466	0.352
0.05	11.033	0.05	0.343
0.0533	11.042	0.0533	0.352
0.0566	11.033	0.0566	0.343
0.06	11.024	0.06	0.334
0.0633	11.033	0.0633	0.343
0.0666	11.024	0.0666	0.334
0.07	11.015	0.07	0.325
0.0733	11.033	0.0733	0.343
0.0766	11.024	0.0766	0.334
0.08	11.015	0.08	0.325
0.0833	11.005	0.0833	0.315
0.0866	11.005	0.0866	0.315
0.09	10.996	0.09	0.306
0.0933	10.996	0.0933	0.306

0.0966	10.987	0.0966	0.297
0.1	10.987	0.1	0.297
0.1033	10.968	0.1033	0.278
0.1066	10.968	0.1066	0.278
0.11	10.959	0.11	0.269
0.1133	10.941	0.1133	0.251
0.1166	10.95	0.1166	0.26
0.12	10.941	0.12	0.251
0.1233	10.931	0.1233	0.241
0.1266	10.913	0.1266	0.223
0.13	10.913	0.13	0.223
0.1333	10.903	0.1333	0.213
0.1366	10.894	0.1366	0.204
0.14	10.894	0.14	0.204
0.1433	10.894	0.1433	0.204
0.1466	10.885	0.1466	0.195
0.15	10.866	0.15	0.176
0.1533	10.866	0.1533	0.176
0.1566	10.857	0.1566	0.167
0.16	10.857	0.16	0.167
0.1633	10.848	0.1633	0.158
0.1666	10.848	0.1666	0.158
0.17	10.839	0.17	0.149
0.1733	10.839	0.1733	0.149
0.1766	10.839	0.1766	0.149
0.18	10.839	0.18	0.149
0.1833	10.829	0.1833	0.139
0.1866	10.82	0.1866	0.13
0.19	10.82	0.19	0.13
0.1933	10.82	0.1933	0.13
0.1966	10.811	0.1966	0.121
0.2	10.811	0.2	0.121
0.2033	10.801	0.2033	0.111
0.2066	10.801	0.2066	0.111
0.21	10.801	0.21	0.111
0.2133	10.801	0.2133	0.111
0.2166	10.792	0.2166	0.102
0.22	10.792	0.22	0.102
0.2233	10.801	0.2233	0.111
0.2266	10.792	0.2266	0.102
0.23	10.792	0.23	0.102
0.2333	10.783	0.2333	0.093
0.2366	10.783	0.2366	0.093
0.24	10.783	0.24	0.093
0.2433	10.774	0.2433	0.084
0.2466	10.783	0.2466	0.093
0.25	10.783	0.25	0.093
0.2533	10.783	0.2533	0.093
0.2566	10.783	0.2566	0.093
0.26	10.783	0.26	0.093
0.2633	10.774	0.2633	0.084
0.2666	10.774	0.2666	0.084

0.27	10.774	0.27	0.084
0.2733	10.774	0.2733	0.084
0.2766	10.764	0.2766	0.074
0.28	10.764	0.28	0.074
0.2833	10.774	0.2833	0.084
0.2866	10.764	0.2866	0.074
0.29	10.774	0.29	0.084
0.2933	10.764	0.2933	0.074
0.2966	10.764	0.2966	0.074
0.3	10.764	0.3	0.074
0.3033	10.764	0.3033	0.074
0.3066	10.764	0.3066	0.074
0.31	10.764	0.31	0.074
0.3133	10.774	0.3133	0.084
0.3166	10.755	0.3166	0.065
0.32	10.764	0.32	0.074
0.3233	10.755	0.3233	0.065
0.3266	10.764	0.3266	0.074
0.33	10.764	0.33	0.074
0.3333	10.764	0.3333	0.074
0.35	10.774	0.35	0.084
0.3666	10.764	0.3666	0.074
0.3833	10.764	0.3833	0.074
0.4	10.755	0.4	0.065
0.4166	10.764	0.4166	0.074
0.4333	10.764	0.4333	0.074
0.45	10.764	0.45	0.074
0.4666	10.755	0.4666	0.065
0.4833	10.764	0.4833	0.074
0.5	10.755	0.5	0.065
0.5166	10.746	0.5166	0.056
0.5333	10.755	0.5333	0.065
0.55	10.755	0.55	0.065
0.5666	10.746	0.5666	0.056
0.5833	10.746	0.5833	0.056
0.6	10.755	0.6	0.065
0.6166	10.746	0.6166	0.056
0.6333	10.746	0.6333	0.056
0.65	10.746	0.65	0.056
0.6666	10.746	0.6666	0.056
0.6833	10.746	0.6833	0.056
0.7	10.746	0.7	0.056
0.7166	10.746	0.7166	0.056
0.7333	10.746	0.7333	0.056
0.75	10.746	0.75	0.056
0.7666	10.746	0.7666	0.056
0.7833	10.737	0.7833	0.047
0.8	10.737	0.8	0.047
0.8166	10.746	0.8166	0.056
0.8333	10.746	0.8333	0.056
0.85	10.737	0.85	0.047
0.8666	10.737	0.8666	0.047

Otgmi-5a RAW DATA

652 204

0.8833	10.737	0.8833	0.047
0.9	10.727	0.9	0.037
0.9166	10.737	0.9166	0.047
0.9333	10.737	0.9333	0.047
0.95	10.737	0.95	0.047
0.9666	10.727	0.9666	0.037
0.9833	10.727	0.9833	0.037
1	10.718	1	0.028
1.2	10.718	1.2	0.028
1.4	10.709	1.4	0.019
1.6	10.709	1.6	0.019
1.8	10.7	1.8	0.01
2	10.7	2	0.01
2.2	10.69	2.2	0
2.4	10.69	2.4	0
2.6	10.681	2.6	-0.009
2.8	10.69	2.8	0
3	10.681	3	-0.009
3.2	10.681	3.2	-0.009
3.4	10.681	3.4	-0.009
3.6	10.69	3.6	0
3.8	10.681	3.8	-0.009
4	10.69	4	0
4.2	10.69	4.2	0
4.4	10.69	4.4	0
4.6	10.69	4.6	0
4.8	10.69	4.8	0
5	10.69	5	0
5.2	10.69	5.2	0
5.4	10.69	5.4	0
5.6	10.69	5.6	0
5.8	10.69	5.8	0

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID. GMI-22-02M

Value

Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	6.00
Length of well submergence, L_w (ft)	8.32
Length of submerged screen, L_e (ft)	10.00
(if $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft)	
Initial (max) water level drawdown from static, $y'(0)$ (ft) (y-intercept)	8.32
	1.84

If $L_w \leq L_e$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, n (fraction)
(if porosity unknown, type "ND")

Adjusted radius of casing, r_c

$$r_c = [(1-n)r_c^2 + n(rw^2)]^{1/2}$$

$$r_c (\text{ft}) = 0.201$$

From the Theis equation, horizontal hydraulic conductivity, K , can be calculated as

$$K = (r_c^2 \ln(Re/rw)) / (2L_e) (f/k) (\ln(y'/0))$$

where
Re = time t (min)

y' = drawdown from static water level

Re = effective radial distance over which y' (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer.

If the well is partially penetrating ($L_w < H$)

$$\ln(Re/rw) = (1 / \ln(L_w/rw)) + (A + B \ln((H - L_w) / rw) / (L_e / rw))^{1/2} - 1$$

where A and B are obtained from data curves

$$L_w / rw \approx 24$$

$$L_e / rw = 24$$

=====> If the well is fully penetrating

$$\ln(Re/rw) = (1 / \ln(L_w/rw)) + C / (L_e / rw)^{1/2}$$

where C is obtained from a data curve

$$L_e / rw = 24$$

Since the well is fully penetrating,

$$\ln(Re/rw) = 2.25$$

From the semi-log drawdown vs. time plot

$$Y_{\text{intercept}}, y'(0) (\text{feet}) = 1.84$$

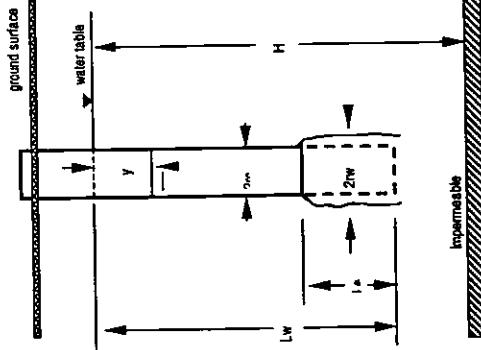
$$Y\text{-value}, y(t), \text{ at time } t, (t\text{feet}) = 0.59$$

$$\text{Time, } t \text{ (min)} = 0.16$$

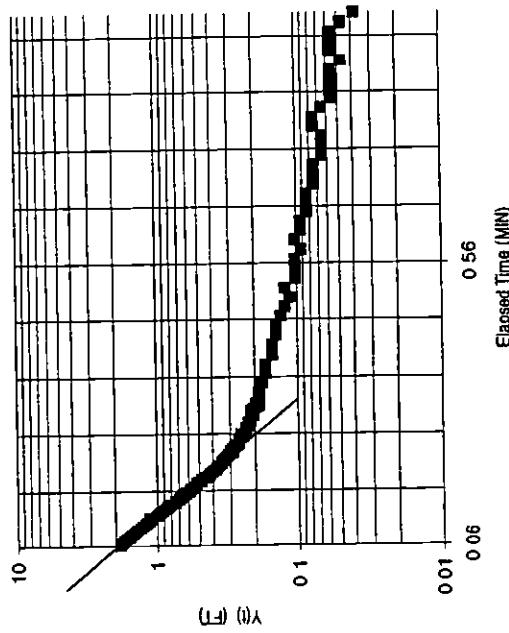
Solving for horizontal hydraulic conductivity, K .

$$K = 4.70E+01 \text{ ft/day} \quad K = 1.66E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y'(0) > L_w - L_e$, a double straight-line effect may be noted in the water level response curve. Double straight-line may occur



GMI-22-02M



Otgmi-6a RAW DATA

652 206

SE100 OC
 Environmental Logger
 01/21 1 3:38

Unit# 0001 Test 13

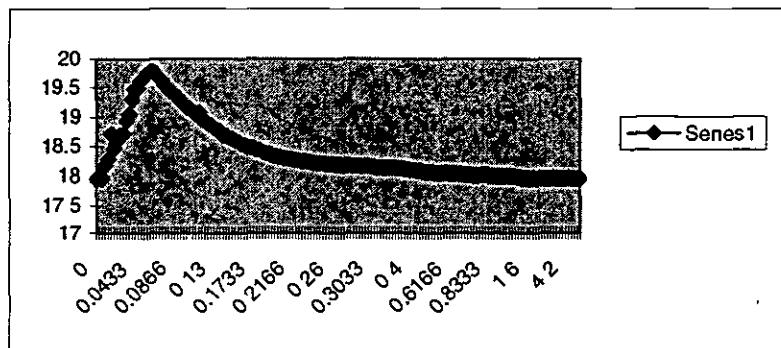
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 17.99
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 11:17:54

Elapsed T: INPUT 1



0	17.952	0	0
0.0033	17.971	0.0033	0.019
0.0066	17.962	0.0066	0.01
0.01	18.166	0.01	0.214
0.0133	18.277	0.0133	0.325
0.0166	18.723	0.0166	0.771
0.02	18.463	0.02	0.511
0.0233	18.593	0.0233	0.641
0.0266	18.713	0.0266	0.761
0.03	18.723	0.03	0.771
0.0333	18.945	0.0333	0.993
0.0366	19.048	0.0366	1.096
0.04	19.307	0.04	1.355
0.0433	19.465	0.0433	1.513
0.0466	19.484	0.0466	1.532
0.05	19.613	0.05	1.661
0.0533	19.66	0.0533	1.708
0.0566	19.743	0.0566	1.791
0.06	19.79	0.06	1.838
0.0633	19.78	0.0633	1.828
0.0666	19.715	0.0666	1.763
0.07	19.66	0.07	1.708
0.0733	19.613	0.0733	1.661
0.0766	19.53	0.0766	1.578
0.08	19.484	0.08	1.532
0.0833	19.428	0.0833	1.476
0.0866	19.382	0.0866	1.43
0.09	19.335	0.09	1.383
0.0933	19.27	0.0933	1.318

Otgmi-6a RAW DATA

652 207

0.0966	19.224	0.0966	1.272
0.1	19.168	0.1	1.216
0.1033	19.14	0.1033	1.188
0.1066	19.094	0.1066	1.142
0.11	19.048	0.11	1.096
0.1133	19.094	0.1133	1.142
0.1166	18.964	0.1166	1.012
0.12	18.927	0.12	0.975
0.1233	18.899	0.1233	0.947
0.1266	18.862	0.1266	0.91
0.13	18.816	0.13	0.864
0.1333	18.788	0.1333	0.836
0.1366	18.76	0.1366	0.808
0.14	18.686	0.14	0.734
0.1433	18.686	0.1433	0.734
0.1466	18.648	0.1466	0.696
0.15	18.63	0.15	0.678
0.1533	18.602	0.1533	0.65
0.1566	18.574	0.1566	0.622
0.16	18.537	0.16	0.585
0.1633	18.528	0.1633	0.576
0.1666	18.491	0.1666	0.539
0.17	18.472	0.17	0.52
0.1733	18.472	0.1733	0.52
0.1766	18.435	0.1766	0.483
0.18	18.435	0.18	0.483
0.1833	18.398	0.1833	0.446
0.1866	18.379	0.1866	0.427
0.19	18.37	0.19	0.418
0.1933	18.351	0.1933	0.399
0.1966	18.333	0.1966	0.381
0.2	18.324	0.2	0.372
0.2033	18.314	0.2033	0.362
0.2066	18.296	0.2066	0.344
0.21	18.296	0.21	0.344
0.2133	18.286	0.2133	0.334
0.2166	18.277	0.2166	0.325
0.22	18.268	0.22	0.316
0.2233	18.259	0.2233	0.307
0.2266	18.24	0.2266	0.288
0.23	18.249	0.23	0.297
0.2333	18.24	0.2333	0.288
0.2366	18.231	0.2366	0.279
0.24	18.222	0.24	0.27
0.2433	18.212	0.2433	0.26
0.2466	18.212	0.2466	0.26
0.25	18.212	0.25	0.26
0.2533	18.203	0.2533	0.251
0.2566	18.194	0.2566	0.242
0.26	18.203	0.26	0.251
0.2633	18.184	0.2633	0.232
0.2666	18.184	0.2666	0.232

0.27	18.184	0.27	0.232
0.2733	18.175	0.2733	0.223
0.2766	18.175	0.2766	0.223
0.28	18.175	0.28	0.223
0.2833	18.166	0.2833	0.214
0.2866	18.166	0.2866	0.214
0.29	18.166	0.29	0.214
0.2933	18.157	0.2933	0.205
0.2966	18.166	0.2966	0.214
0.3	18.166	0.3	0.214
0.3033	18.157	0.3033	0.205
0.3066	18.147	0.3066	0.195
0.31	18.138	0.31	0.186
0.3133	18.147	0.3133	0.195
0.3166	18.138	0.3166	0.186
0.32	18.138	0.32	0.186
0.3233	18.138	0.3233	0.186
0.3266	18.138	0.3266	0.186
0.33	18.138	0.33	0.186
0.3333	18.138	0.3333	0.186
0.35	18.129	0.35	0.177
0.3666	18.119	0.3666	0.167
0.3833	18.119	0.3833	0.167
0.4	18.101	0.4	0.149
0.4166	18.101	0.4166	0.149
0.4333	18.092	0.4333	0.14
0.45	18.092	0.45	0.14
0.4666	18.082	0.4666	0.13
0.4833	18.073	0.4833	0.121
0.5	18.064	0.5	0.112
0.5166	18.073	0.5166	0.121
0.5333	18.054	0.5333	0.102
0.55	18.054	0.55	0.102
0.5666	18.054	0.5666	0.102
0.5833	18.045	0.5833	0.093
0.6	18.054	0.6	0.102
0.6166	18.045	0.6166	0.093
0.6333	18.045	0.6333	0.093
0.65	18.036	0.65	0.084
0.6666	18.036	0.6666	0.084
0.6833	18.036	0.6833	0.084
0.7	18.027	0.7	0.075
0.7166	18.027	0.7166	0.075
0.7333	18.027	0.7333	0.075
0.75	18.017	0.75	0.065
0.7666	18.017	0.7666	0.065
0.7833	18.017	0.7833	0.065
0.8	18.027	0.8	0.075
0.8166	18.027	0.8166	0.075
0.8333	18.017	0.8333	0.065
0.85	18.008	0.85	0.056
0.8666	18.008	0.8666	0.056

0.8833	18.008	0.8833	0.056
0.9	18.008	0.9	0.056
0.9166	17.999	0.9166	0.047
0.9333	18.008	0.9333	0.056
0.95	18.008	0.95	0.056
0.9666	18.008	0.9666	0.056
0.9833	17.999	0.9833	0.047
1	17.99	1	0.038
1.2	17.98	1.2	0.028
1.4	17.971	1.4	0.019
1.6	17.971	1.6	0.019
1.8	17.962	1.8	0.01
2	17.971	2	0.019
2.2	17.962	2.2	0.01
2.4	17.962	2.4	0.01
2.6	17.962	2.6	0.01
2.8	17.962	2.8	0.01
3	17.962	3	0.01
3.2	17.962	3.2	0.01
3.4	17.971	3.4	0.019
3.6	17.962	3.6	0.01
3.8	17.962	3.8	0.01
4	17.962	4	0.01
4.2	17.962	4.2	0.01
4.4	17.971	4.4	0.019
4.6	17.962	4.6	0.01
4.8	17.962	4.8	0.01
5	17.962	5	0.01
5.2	17.962	5.2	0.01

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID:

GMI-22-07M

Value

Radius of casing, r_c (in)	<input type="text" value="1.00"/>
Radius to undisturbed aquifer, r_w (in)	<input type="text" value="5.00"/>
Length of well submergence, L_w (ft)	<input type="text" value="8.13"/>
Length of submersed screen, L_e (ft)	<input type="text" value="10.00"/>
If $L_w < L_e$, let $L_e = L_w$	
Height of water in aquifer, H (ft)	<input type="text" value="8.13"/>
Initial (max) water level drawdown from static, $y(0)$ (ft), (y -intercept)	<input type="text" value="2.30"/>

If $L_w \leq L_e$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, n (fraction)
 (If porosity unknown, type "ND")

Adjusted radius of casing, r'_c

$$r'_c = ((1-n)r_c^2 + n(r_w^2))^{1/2}$$

r_c (ft) =

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as:

$$K = (r'_c)^2 (\ln(r_w/r_c) / 2L_e) (1/t) (\ln(y(0)/y(t)))$$

where
 t = time (min)

y = drawdown from static water level
 r_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(r_e/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$),

$$\ln(r_e/r_w) = (1/1) \ln((H - L_w) / (L_w / r_w))^{1/2} \cdot 1$$

where A and B are obtained from data curves

$$\begin{aligned} Le / rw &= 24 \\ Le / rw &= 24 \end{aligned}$$

=====> If the well is fully penetrating

$$\ln(r_e/r_w) = (1/1) \ln((L_w/r_w) + C / (L_w / r_w))^{1/2} \cdot 1$$

where C is obtained from a data curve

$$Le / rw = 24$$

Since the well is fully penetrating

$$\ln(r_e/r_w) = 2.25$$

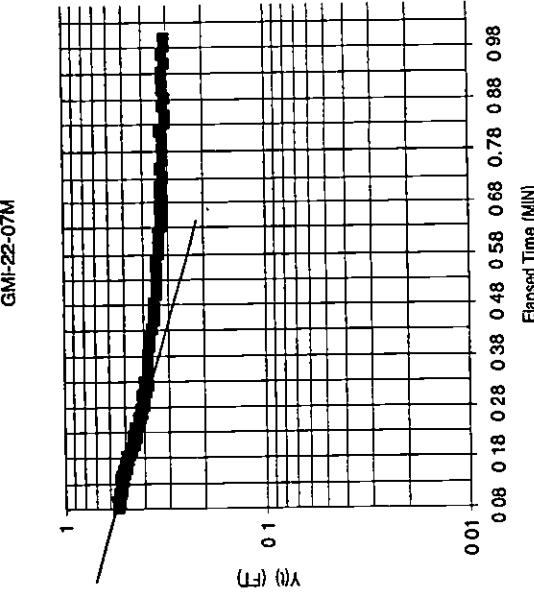
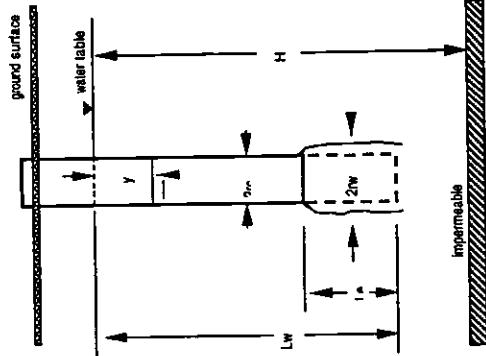
From the semi-log drawdown vs time plot

Y-intercept, $y(0)$ (feet) = <input type="text" value="2.30"/>
Y-value, $y(t)$, at time, t , (feet) = <input type="text" value="0.49"/>
Time, t (min) = <input type="text" value="0.18"/>

Solving for horizontal hydraulic conductivity, K

$K = 5.59E+01$ ft/day	$K = 1.97E-02$ cm/s
-----------------------	---------------------

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w$. i.e., a double straight-line effect may be noted in the water level response curve



SE100 OC
 Environmental Logger
 01/26 1 0:55

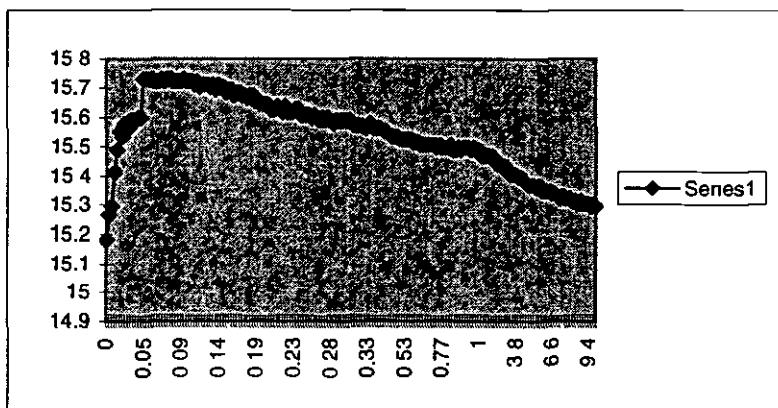
Unit# 0001 Test 10

Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 14.96
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 3 01/ 15:26:13



Elapsed T: INPUT 1

0	15.182	0	0
0.0033	15.266	0.0033	0.084
0.0066	15.294	0.0066	0.112
0.01	15.414	0.01	0.232
0.0133	15.489	0.0133	0.307
0.0166	15.554	0.0166	0.372
0.02	15.535	0.02	0.353
0.0233	15.581	0.0233	0.399
0.0266	15.563	0.0266	0.381
0.03	15.591	0.03	0.409
0.0333	15.591	0.0333	0.409
0.0366	15.591	0.0366	0.409
0.04	15.6	0.04	0.418
0.0433	15.6	0.0433	0.418
0.0466	15.73	0.0466	0.548
0.05	15.73	0.05	0.548
0.0533	15.73	0.0533	0.548
0.0566	15.73	0.0566	0.548
0.06	15.721	0.06	0.539
0.0633	15.721	0.0633	0.539
0.0666	15.721	0.0666	0.539
0.07	15.73	0.07	0.548
0.0733	15.721	0.0733	0.539
0.0766	15.73	0.0766	0.548
0.08	15.73	0.08	0.548
0.0833	15.721	0.0833	0.539
0.0866	15.721	0.0866	0.539
0.09	15.721	0.09	0.539
0.0933	15.721	0.0933	0.539
0.0966	15.73	0.0966	0.548

0.1	15.721	0.1	0.539
0.1033	15.721	0.1033	0.539
0.1066	15.721	0.1066	0.539
0.11	15.711	0.11	0.529
0.1133	15.721	0.1133	0.539
0.1166	15.702	0.1166	0.52
0.12	15.711	0.12	0.529
0.1233	15.711	0.1233	0.529
0.1266	15.711	0.1266	0.529
0.13	15.702	0.13	0.52
0.1333	15.711	0.1333	0.529
0.1366	15.693	0.1366	0.511
0.14	15.711	0.14	0.529
0.1433	15.702	0.1433	0.52
0.1466	15.702	0.1466	0.52
0.15	15.683	0.15	0.501
0.1533	15.693	0.1533	0.511
0.1566	15.693	0.1566	0.511
0.16	15.674	0.16	0.492
0.1633	15.683	0.1633	0.501
0.1666	15.683	0.1666	0.501
0.17	15.674	0.17	0.492
0.1733	15.674	0.1733	0.492
0.1766	15.665	0.1766	0.483
0.18	15.674	0.18	0.492
0.1833	15.674	0.1833	0.492
0.1866	15.656	0.1866	0.474
0.19	15.656	0.19	0.474
0.1933	15.646	0.1933	0.464
0.1966	15.646	0.1966	0.464
0.2	15.646	0.2	0.464
0.2033	15.637	0.2033	0.455
0.2066	15.628	0.2066	0.446
0.21	15.628	0.21	0.446
0.2133	15.637	0.2133	0.455
0.2166	15.628	0.2166	0.446
0.22	15.619	0.22	0.437
0.2233	15.637	0.2233	0.455
0.2266	15.619	0.2266	0.437
0.23	15.619	0.23	0.437
0.2333	15.619	0.2333	0.437
0.2366	15.628	0.2366	0.446
0.24	15.628	0.24	0.446
0.2433	15.609	0.2433	0.427
0.2466	15.609	0.2466	0.427
0.25	15.609	0.25	0.427
0.2533	15.609	0.2533	0.427
0.2566	15.6	0.2566	0.418
0.26	15.609	0.26	0.427
0.2633	15.6	0.2633	0.418
0.2666	15.591	0.2666	0.409
0.27	15.6	0.27	0.418
0.2733	15.591	0.2733	0.409

0.2766	15.6	0.2766	0.418
0.28	15.591	0.28	0.409
0.2833	15.581	0.2833	0.399
0.2866	15.591	0.2866	0.409
0.29	15.591	0.29	0.409
0.2933	15.591	0.2933	0.409
0.2966	15.591	0.2966	0.409
0.3	15.591	0.3	0.409
0.3033	15.591	0.3033	0.409
0.3066	15.581	0.3066	0.399
0.31	15.572	0.31	0.39
0.3133	15.572	0.3133	0.39
0.3166	15.572	0.3166	0.39
0.32	15.572	0.32	0.39
0.3233	15.563	0.3233	0.381
0.3266	15.572	0.3266	0.39
0.33	15.581	0.33	0.399
0.3333	15.563	0.3333	0.381
0.35	15.563	0.35	0.381
0.3666	15.563	0.3666	0.381
0.3833	15.563	0.3833	0.381
0.4	15.554	0.4	0.372
0.4166	15.554	0.4166	0.372
0.4333	15.544	0.4333	0.362
0.45	15.535	0.45	0.353
0.4666	15.535	0.4666	0.353
0.4833	15.535	0.4833	0.353
0.5	15.526	0.5	0.344
0.5166	15.526	0.5166	0.344
0.5333	15.526	0.5333	0.344
0.55	15.526	0.55	0.344
0.5666	15.526	0.5666	0.344
0.5833	15.516	0.5833	0.334
0.6	15.516	0.6	0.334
0.6166	15.516	0.6166	0.334
0.6333	15.507	0.6333	0.325
0.65	15.507	0.65	0.325
0.6666	15.507	0.6666	0.325
0.6833	15.507	0.6833	0.325
0.7	15.507	0.7	0.325
0.7166	15.507	0.7166	0.325
0.7333	15.498	0.7333	0.316
0.75	15.507	0.75	0.325
0.7666	15.498	0.7666	0.316
0.7833	15.498	0.7833	0.316
0.8	15.498	0.8	0.316
0.8166	15.507	0.8166	0.325
0.8333	15.489	0.8333	0.307
0.85	15.489	0.85	0.307
0.8666	15.498	0.8666	0.316
0.8833	15.489	0.8833	0.307
0.9	15.498	0.9	0.316
0.9166	15.498	0.9166	0.316

Gmi-7bou RAW DATA

0.9333	15.498	0.9333	0.316
0.95	15.489	0.95	0.307
0.9666	15.498	0.9666	0.316
0.9833	15.489	0.9833	0.307
1	15.489	1	0.307
1.2	15.47	1.2	0.288
1.4	15.47	1.4	0.288
1.6	15.47	1.6	0.288
1.8	15.47	1.8	0.288
2	15.47	2	0.288
2.2	15.451	2.2	0.269
2.4	15.442	2.4	0.26
2.6	15.442	2.6	0.26
2.8	15.433	2.8	0.251
3	15.433	3	0.251
3.2	15.424	3.2	0.242
3.4	15.405	3.4	0.223
3.6	15.405	3.6	0.223
3.8	15.405	3.8	0.223
4	15.396	4	0.214
4.2	15.396	4.2	0.214
4.4	15.386	4.4	0.204
4.6	15.377	4.6	0.195
4.8	15.368	4.8	0.186
5	15.368	5	0.186
5.2	15.368	5.2	0.186
5.4	15.359	5.4	0.177
5.6	15.368	5.6	0.186
5.8	15.349	5.8	0.167
6	15.349	6	0.167
6.2	15.349	6.2	0.167
6.4	15.349	6.4	0.167
6.6	15.34	6.6	0.158
6.8	15.34	6.8	0.158
7	15.331	7	0.149
7.2	15.322	7.2	0.14
7.4	15.331	7.4	0.149
7.6	15.322	7.6	0.14
7.8	15.322	7.8	0.14
8	15.322	8	0.14
8.2	15.312	8.2	0.13
8.4	15.312	8.4	0.13
8.6	15.303	8.6	0.121
8.8	15.312	8.8	0.13
9	15.303	9	0.121
9.2	15.303	9.2	0.121
9.4	15.303	9.4	0.121
9.6	15.294	9.6	0.112
9.8	15.303	9.8	0.121
10	15.294	10	0.112

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

[Well ID: WITCTA010]

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	4.40
Length of submersed well screen, L_s (ft)	7.25
(if $L_w < L_s$, let $L_s = L_w$)	
Height of water in aquifer, H (ft)	4.40
Initial (max.) water level drawdown from static, $y(0)$ (ft) (y -intercept)	0.30

If $L_w \ll L_s$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

$r_c = (r_c^*2 + n(r_w^*2))^{1/2}$

0.20

Porosity of sandpack, n (fraction)

(if porosity unknown, type "ND")

Adjusted radius of casing, r_c

$r_c^* = ((1-n)r_c^*2 + n(r_w^*2))^{1/2}$

0.201

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$K = (r_c^*2 \ln(Re/r_w)) / (2\pi t) (H) \ln(y(0)/t)$

where

t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(Re/r_w) = (1 / \ln(L_w/r_w)) + (A + B \ln((H - L_w) / r_w)) / ((L_w / r_w))^{0.5} - 1$$

where A and B are obtained from data curves

$$L_w / r_w = 17.4$$

$$L_e / r_w = 17.4$$

$$h(Re/r_w) = (1 / \ln(L_w/r_w)) + C / (L_w / r_w)^{0.5} - 1$$

where C is obtained from a data curve

$$C = 1.60$$

Since the well is fully penetrating:

$$\ln(Re/r_w) = 1.79$$

From the semi-log drawdown vs time plot:

Y-intercept, $y(0)$ (feet) =

Y-value, $y(t)$, at time, t , (feet) =

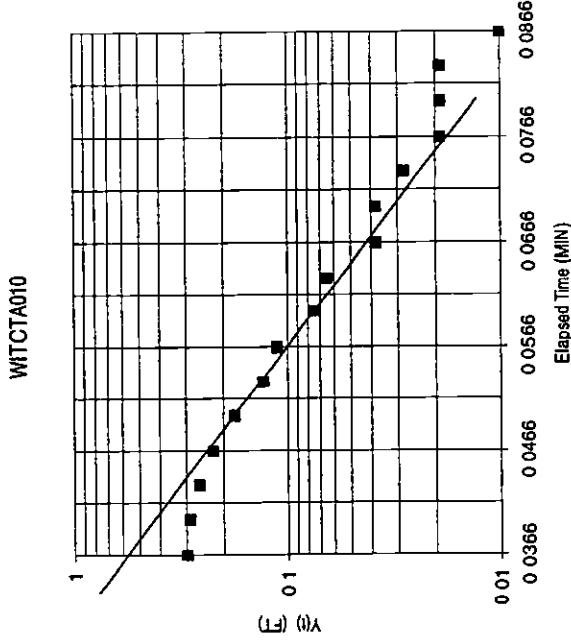
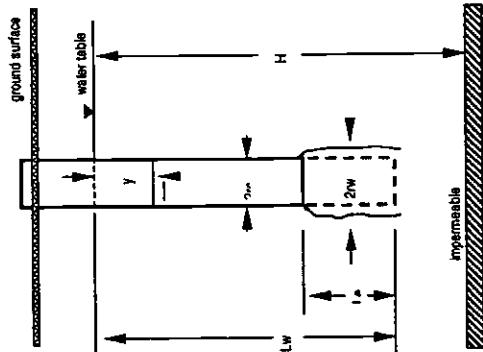
Time, t (min) =

Solving for horizontal hydraulic conductivity, K :

$$K = 2.16E+02 \text{ ft/day}$$

$$K = 7.61E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_e$, a double straight-line effect may be noted in the water level response curve



65.2 216

It-10bou RAW DATA

SE100 OC
Environmental Logger
01/26 1 0:45

Unit# 0001 Test 9

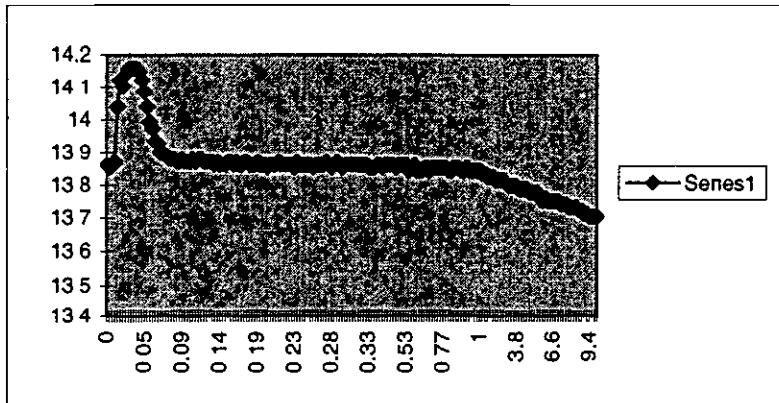
Setups: INPUT 1

Type Level (F)
Mode TOC
I.D. 923

Reference 13.9
Linearity 0.32
Scale facto 29.34
Offset 0.01
Delay mSE 50

Step 3 01/ 14:34:13

Elapsed Ti INPUT 1



0	13.862	0	0
0.0033	13.853	0.0033	-0.009
0.0066	13.862	0.0066	0
0.01	13.872	0.01	0.01
0.0133	14.039	0.0133	0.177
0.0166	14.122	0.0166	0.26
0.02	14.103	0.02	0.241
0.0233	14.141	0.0233	0.279
0.0266	14.159	0.0266	0.297
0.03	14.159	0.03	0.297
0.0333	14.159	0.0333	0.297
0.0366	14.159	0.0366	0.297
0.04	14.15	0.04	0.288
0.0433	14.122	0.0433	0.26
0.0466	14.085	0.0466	0.223
0.05	14.039	0.05	0.177
0.0533	13.992	0.0533	0.13
0.0566	13.974	0.0566	0.112
0.06	13.937	0.06	0.075
0.0633	13.927	0.0633	0.065
0.0666	13.9	0.0666	0.038
0.07	13.9	0.07	0.038
0.0733	13.89	0.0733	0.028
0.0766	13.881	0.0766	0.019
0.08	13.881	0.08	0.019
0.0833	13.881	0.0833	0.019
0.0866	13.872	0.0866	0.01
0.09	13.872	0.09	0.01
0.0933	13.881	0.0933	0.019
0.0966	13.872	0.0966	0.01

0.1	13.872	0.1	0.01
0.1033	13.872	0.1033	0.01
0.1066	13.881	0.1066	0.019
0.11	13.872	0.11	0.01
0.1133	13.881	0.1133	0.019
0.1166	13.881	0.1166	0.019
0.12	13.872	0.12	0.01
0.1233	13.872	0.1233	0.01
0.1266	13.872	0.1266	0.01
0.13	13.872	0.13	0.01
0.1333	13.862	0.1333	0
0.1366	13.872	0.1366	0.01
0.14	13.862	0.14	0
0.1433	13.862	0.1433	0
0.1466	13.862	0.1466	0
0.15	13.872	0.15	0.01
0.1533	13.872	0.1533	0.01
0.1566	13.862	0.1566	0
0.16	13.872	0.16	0.01
0.1633	13.862	0.1633	0
0.1666	13.862	0.1666	0
0.17	13.872	0.17	0.01
0.1733	13.872	0.1733	0.01
0.1766	13.862	0.1766	0
0.18	13.862	0.18	0
0.1833	13.862	0.1833	0
0.1866	13.872	0.1866	0.01
0.19	13.862	0.19	0
0.1933	13.862	0.1933	0
0.1966	13.862	0.1966	0
0.2	13.853	0.2	-0.009
0.2033	13.862	0.2033	0
0.2066	13.862	0.2066	0
0.21	13.862	0.21	0
0.2133	13.872	0.2133	0.01
0.2166	13.862	0.2166	0
0.22	13.862	0.22	0
0.2233	13.862	0.2233	0
0.2266	13.862	0.2266	0
0.23	13.862	0.23	0
0.2333	13.853	0.2333	-0.009
0.2366	13.872	0.2366	0.01
0.24	13.862	0.24	0
0.2433	13.862	0.2433	0
0.2466	13.862	0.2466	0
0.25	13.862	0.25	0
0.2533	13.862	0.2533	0
0.2566	13.853	0.2566	-0.009
0.26	13.862	0.26	0
0.2633	13.862	0.2633	0
0.2666	13.862	0.2666	0
0.27	13.862	0.27	0
0.2733	13.872	0.2733	0.01

0.2766	13.862	0.2766	0
0.28	13.853	0.28	-0.009
0.2833	13.862	0.2833	0
0.2866	13.872	0.2866	0.01
0.29	13.862	0.29	0
0.2933	13.853	0.2933	-0.009
0.2966	13.862	0.2966	0
0.3	13.862	0.3	0
0.3033	13.862	0.3033	0
0.3066	13.862	0.3066	0
0.31	13.862	0.31	0
0.3133	13.862	0.3133	0
0.3166	13.862	0.3166	0
0.32	13.862	0.32	0
0.3233	13.862	0.3233	0
0.3266	13.853	0.3266	-0.009
0.33	13.853	0.33	-0.009
0.3333	13.853	0.3333	-0.009
0.35	13.862	0.35	0
0.3666	13.862	0.3666	0
0.3833	13.853	0.3833	-0.009
0.4	13.862	0.4	0
0.4166	13.862	0.4166	0
0.4333	13.862	0.4333	0
0.45	13.862	0.45	0
0.4666	13.853	0.4666	-0.009
0.4833	13.862	0.4833	0
0.5	13.862	0.5	0
0.5166	13.862	0.5166	0
0.5333	13.862	0.5333	0
0.55	13.844	0.55	-0.018
0.5666	13.853	0.5666	-0.009
0.5833	13.862	0.5833	0
0.6	13.844	0.6	-0.018
0.6166	13.844	0.6166	-0.018
0.6333	13.844	0.6333	-0.018
0.65	13.853	0.65	-0.009
0.6666	13.853	0.6666	-0.009
0.6833	13.844	0.6833	-0.018
0.7	13.853	0.7	-0.009
0.7166	13.853	0.7166	-0.009
0.7333	13.853	0.7333	-0.009
0.75	13.853	0.75	-0.009
0.7666	13.853	0.7666	-0.009
0.7833	13.853	0.7833	-0.009
0.8	13.844	0.8	-0.018
0.8166	13.844	0.8166	-0.018
0.8333	13.853	0.8333	-0.009
0.85	13.853	0.85	-0.009
0.8666	13.853	0.8666	-0.009
0.8833	13.844	0.8833	-0.018
0.9	13.844	0.9	-0.018
0.9166	13.853	0.9166	-0.009

0.9333	13.844	0.9333	-0.018
0.95	13.844	0.95	-0.018
0.9666	13.844	0.9666	-0.018
0.9833	13.844	0.9833	-0.018
1	13.844	1	-0.018
1.2	13.835	1.2	-0.027
1.4	13.835	1.4	-0.027
1.6	13.825	1.6	-0.037
1.8	13.825	1.8	-0.037
2	13.825	2	-0.037
2.2	13.816	2.2	-0.046
2.4	13.816	2.4	-0.046
2.6	13.816	2.6	-0.046
2.8	13.816	2.8	-0.046
3	13.807	3	-0.055
3.2	13.798	3.2	-0.064
3.4	13.798	3.4	-0.064
3.6	13.798	3.6	-0.064
3.8	13.798	3.8	-0.064
4	13.788	4	-0.074
4.2	13.788	4.2	-0.074
4.4	13.788	4.4	-0.074
4.6	13.788	4.6	-0.074
4.8	13.779	4.8	-0.083
5	13.779	5	-0.083
5.2	13.779	5.2	-0.083
5.4	13.779	5.4	-0.083
5.6	13.77	5.6	-0.092
5.8	13.751	5.8	-0.111
6	13.76	6	-0.102
6.2	13.751	6.2	-0.111
6.4	13.751	6.4	-0.111
6.6	13.751	6.6	-0.111
6.8	13.751	6.8	-0.111
7	13.751	7	-0.111
7.2	13.742	7.2	-0.12
7.4	13.742	7.4	-0.12
7.6	13.742	7.6	-0.12
7.8	13.733	7.8	-0.129
8	13.733	8	-0.129
8.2	13.733	8.2	-0.129
8.4	13.733	8.4	-0.129
8.6	13.723	8.6	-0.139
8.8	13.723	8.8	-0.139
9	13.714	9	-0.148
9.2	13.714	9.2	-0.148
9.4	13.705	9.4	-0.157
9.6	13.705	9.6	-0.157
9.8	13.705	9.8	-0.157
10	13.705	10	-0.157

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: WITCTA024

Radius of casing, r_c (in)

Radius to undisturbed aquifer, rw (in)
 Length of well submergence, L_w (ft)
 Length of submerged screen, L_s (ft)
 $(if L_w < L_s, let L_s = L_w)$

Height of water in aquifer, H (ft)
 Initial (max) water level drawdown from static, $y(0)$ (ft) (y -intercept)

Value
 1.00
 5.00
 6.12
 10.00
 6.42
 0.46
 0.20

If $L_w \ll L_s$, porosity, n , of the gravel/sandpack must

be accounted for in the radius of the casing, r_c
 Porosity of sandpack, n (fraction)
 $(if porosity unknown, type "ND")$

Adjusted radius of casing, r'_c
 $r'_c = ((1-n)r_c^2 + n(rw^2))^{1/2}$
 r'_c (ft) = 0.201

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as

$K = (r'_c)^2 \ln(rw/rw') / 2\pi t$ (ft/h) ($\ln(y(0)/y(t))$)
 where
 t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$\ln(Re/rw) = (1 / \ln(L_w/rw)) + A + B \ln((H - L_w) / rw) / (L_w / rw))^{1/2} - 1$
 where A and B are obtained from data curves

$A =$
 $B =$

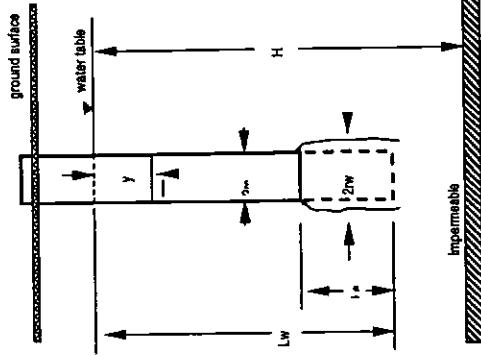
$L_w / rw = 24$
 $L_w / rw = 24$
 \Rightarrow If the well is fully penetrating:
 $\ln(Re/rw) = (1 / \ln(rw/rw)) + C / (L_w / rw)^{1/2}$
 where C is obtained from a data curve
 $L_w / rw = 24$

Since the well is fully penetrating
 $\ln(Re/rw) =$ 2.10
 From the semi-log drawdown vs time plot
 y -intercept, $y(0)$ (feet) = 0.46
 y -value, $y(t)$, at time, t , (feet) = 0.21
 Time, t (min) = 0.25

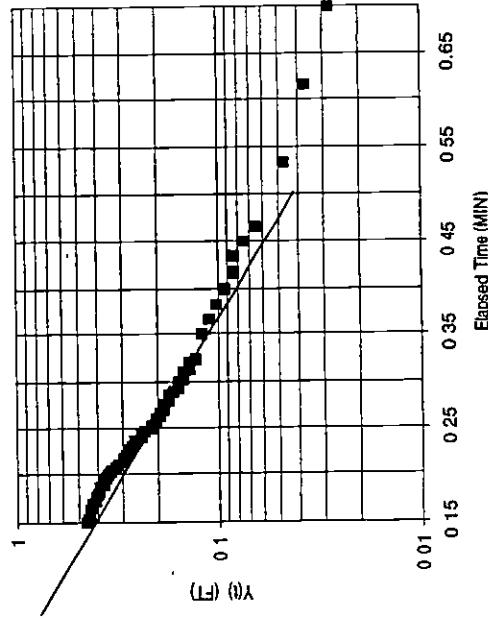
Solving for horizontal hydraulic conductivity, K

$K = 1.84 \times 10^{-4}$ ft/day K = 6.48E-03 ft/s

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w \cdot Le$, a double straight-line effect may be noted in the water level response curve
 Double straight-line may occur



WITCTA024



652.221

Ottil-24a RAW DATA

SE100 OC
 Environmental Logger
 01/21 1 3:20

Unit# 0001 Test 5

Setups: INPUT 1

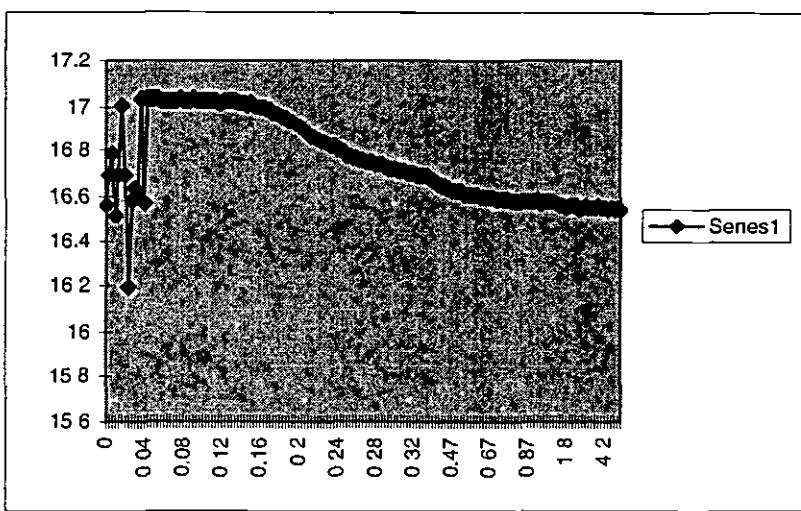
Type Level (F)
 Mode TOC
 I.D. 923

Reference 16.61
 Linearity 0.32
 Scale facto 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 10:17:01

Elapsed Ti INPUT 1

0	16.563	0	0
0.0033	16.693	0.0033	0.13
0.0066	16.786	0.0066	0.223
0.01	16.517	0.01	-0.046
0.0133	16.693	0.0133	0.13
0.0166	17.008	0.0166	0.445
0.02	16.693	0.02	0.13
0.0233	16.192	0.0233	-0.371
0.0266	16.582	0.0266	0.019
0.03	16.637	0.03	0.074
0.0333	16.6	0.0333	0.037
0.0366	17.036	0.0366	0.473
0.04	16.572	0.04	0.009
0.0433	17.036	0.0433	0.473
0.0466	17.036	0.0466	0.473
0.05	17.036	0.05	0.473
0.0533	17.036	0.0533	0.473
0.0566	17.027	0.0566	0.464
0.06	17.027	0.06	0.464
0.0633	17.027	0.0633	0.464
0.0666	17.027	0.0666	0.464
0.07	17.027	0.07	0.464
0.0733	17.027	0.0733	0.464
0.0766	17.036	0.0766	0.473
0.08	17.027	0.08	0.464
0.0833	17.027	0.0833	0.464
0.0866	17.027	0.0866	0.464
0.09	17.036	0.09	0.473
0.0933	17.027	0.0933	0.464



0.0966	17.027	0.0966	0.464
0.1	17.027	0.1	0.464
0.1033	17.027	0.1033	0.464
0.1066	17.027	0.1066	0.464
0.11	17.027	0.11	0.464
0.1133	17.027	0.1133	0.464
0.1166	17.018	0.1166	0.455
0.12	17.018	0.12	0.455
0.1233	17.027	0.1233	0.464
0.1266	17.027	0.1266	0.464
0.13	17.027	0.13	0.464
0.1333	17.027	0.1333	0.464
0.1366	17.018	0.1366	0.455
0.14	17.018	0.14	0.455
0.1433	17.018	0.1433	0.455
0.1466	17.008	0.1466	0.445
0.15	17.018	0.15	0.455
0.1533	17.008	0.1533	0.445
0.1566	16.999	0.1566	0.436
0.16	16.999	0.16	0.436
0.1633	16.999	0.1633	0.436
0.1666	16.99	0.1666	0.427
0.17	16.99	0.17	0.427
0.1733	16.971	0.1733	0.408
0.1766	16.971	0.1766	0.408
0.18	16.962	0.18	0.399
0.1833	16.953	0.1833	0.39
0.1866	16.953	0.1866	0.39
0.19	16.934	0.19	0.371
0.1933	16.934	0.1933	0.371
0.1966	16.925	0.1966	0.362
0.2	16.916	0.2	0.353
0.2033	16.906	0.2033	0.343
0.2066	16.888	0.2066	0.325
0.21	16.879	0.21	0.316
0.2133	16.86	0.2133	0.297
0.2166	16.86	0.2166	0.297
0.22	16.851	0.22	0.288
0.2233	16.841	0.2233	0.278
0.2266	16.841	0.2266	0.278
0.23	16.832	0.23	0.269
0.2333	16.823	0.2333	0.26
0.2366	16.823	0.2366	0.26
0.24	16.804	0.24	0.241
0.2433	16.804	0.2433	0.241
0.2466	16.795	0.2466	0.232
0.25	16.777	0.25	0.214
0.2533	16.777	0.2533	0.214
0.2566	16.767	0.2566	0.204
0.26	16.767	0.26	0.204
0.2633	16.758	0.2633	0.195
0.2666	16.758	0.2666	0.195

0.27	16.749	0.27	0.186
0.2733	16.749	0.2733	0.186
0.2766	16.749	0.2766	0.186
0.28	16.739	0.28	0.176
0.2833	16.739	0.2833	0.176
0.2866	16.739	0.2866	0.176
0.29	16.73	0.29	0.167
0.2933	16.721	0.2933	0.158
0.2966	16.721	0.2966	0.158
0.3	16.721	0.3	0.158
0.3033	16.712	0.3033	0.149
0.3066	16.712	0.3066	0.149
0.31	16.712	0.31	0.149
0.3133	16.702	0.3133	0.139
0.3166	16.702	0.3166	0.139
0.32	16.702	0.32	0.139
0.3233	16.693	0.3233	0.13
0.3266	16.693	0.3266	0.13
0.33	16.693	0.33	0.13
0.3333	16.693	0.3333	0.13
0.35	16.684	0.35	0.121
0.3666	16.674	0.3666	0.111
0.3833	16.665	0.3833	0.102
0.4	16.656	0.4	0.093
0.4166	16.647	0.4166	0.084
0.4333	16.647	0.4333	0.084
0.45	16.637	0.45	0.074
0.4666	16.628	0.4666	0.065
0.4833	16.628	0.4833	0.065
0.5	16.628	0.5	0.065
0.5166	16.628	0.5166	0.065
0.5333	16.61	0.5333	0.047
0.55	16.61	0.55	0.047
0.5666	16.61	0.5666	0.047
0.5833	16.61	0.5833	0.047
0.6	16.61	0.6	0.047
0.6166	16.6	0.6166	0.037
0.6333	16.6	0.6333	0.037
0.65	16.6	0.65	0.037
0.6666	16.6	0.6666	0.037
0.6833	16.6	0.6833	0.037
0.7	16.591	0.7	0.028
0.7166	16.591	0.7166	0.028
0.7333	16.591	0.7333	0.028
0.75	16.591	0.75	0.028
0.7666	16.591	0.7666	0.028
0.7833	16.582	0.7833	0.019
0.8	16.582	0.8	0.019
0.8166	16.582	0.8166	0.019
0.8333	16.582	0.8333	0.019
0.85	16.582	0.85	0.019
0.8666	16.582	0.8666	0.019

0.8833	16.582	0.8833	0.019
0.9	16.582	0.9	0.019
0.9166	16.591	0.9166	0.028
0.9333	16.572	0.9333	0.009
0.95	16.582	0.95	0.019
0.9666	16.582	0.9666	0.019
0.9833	16.582	0.9833	0.019
1	16.582	1	0.019
1.2	16.572	1.2	0.009
1.4	16.563	1.4	0
1.6	16.563	1.6	0
1.8	16.554	1.8	-0.009
2	16.563	2	0
2.2	16.563	2.2	0
2.4	16.563	2.4	0
2.6	16.545	2.6	-0.018
2.8	16.554	2.8	-0.009
3	16.563	3	0
3.2	16.554	3.2	-0.009
3.4	16.554	3.4	-0.009
3.6	16.554	3.6	-0.009
3.8	16.563	3.8	0
4	16.554	4	-0.009
4.2	16.554	4.2	-0.009
4.4	16.545	4.4	-0.018
4.6	16.554	4.6	-0.009
4.8	16.545	4.8	-0.018
5	16.554	5	-0.009
5.2	16.545	5.2	-0.018

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

[Well ID: WCHMHTA001]

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	5.00
Length of well submergence, Lw (ft)	20.07
Length of submerged screen, Le (ft)	20.00
If $Lw < Le$, let $Le = Lw$	
Height of water in aquifer, H (ft)	20.07
Inital (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	1.33
$r_c = ((1-\eta)r_c^2 + \eta(rw^2))^{1/2}$	
r_c (ft) =	0.083 No adjustment performed

If $Lw \ll Le$, porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, η (fraction)
 If porosity unknown, type "ND"

Adjusted radius of casing, r'_c

$$r'_c = ((1-\eta)r_c^2 + \eta(rw^2))^{1/2}$$

Re = effective radial distance over which y (drawdown) is dissipated

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$$K = (r_c^2 / (4\pi r'c rw)) (Lw / (H - y(t))) (t / (4\pi rw))$$

where

- t = time (min)
- y = drawdown from static water level

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

- >>> If the well is partially penetrating ($Lw < H$)

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw)) * (A + B \ln((H - Lw) / rw) / (Lw / rw))^{1/2}$$

where A and B are obtained from data curves

A =
 B =

Le / rw = 48
 Le / rw = 48

- >>> If the well is fully penetrating

$$\ln(Re/rw) = (1.1 / \ln(Lw/rw)) * (C / (Le / rw))^{1/2}$$

where C is obtained from a data curve

Le / rw = 48
 Le / rw = 48

Since the well is fully penetrating:

$\ln(Re/rw) = 2.95$

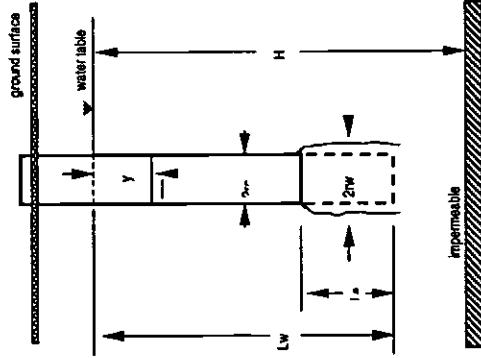
From the semi-log drawdown vs time plot

Y-intercept, $y(0)$ (feet) =
 Y-value, $y(t)$, at time, t , (feet) =
 Time, t (min) =

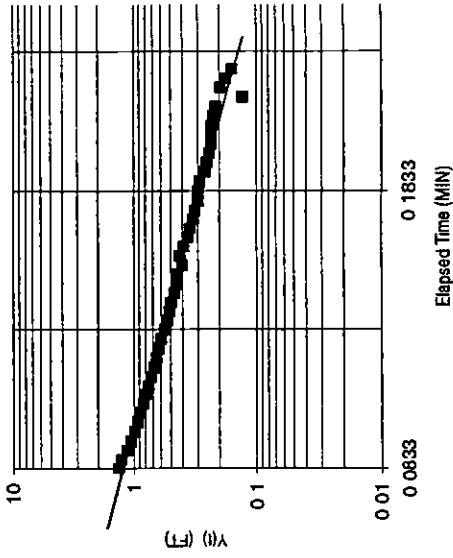
Solving for horizontal hydraulic conductivity, K :

$$K = 6.43E-00 \text{ ft/day} \quad K = 2.27E-03 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw - Le$, a double straight-line effect may be noted in the water level response curve



WCHMHTA001



652 226

Mw-1aout raw data

SE100 0C
 Environment al Logger
 01/23 1 0:30

Unit# 00010 Test 6

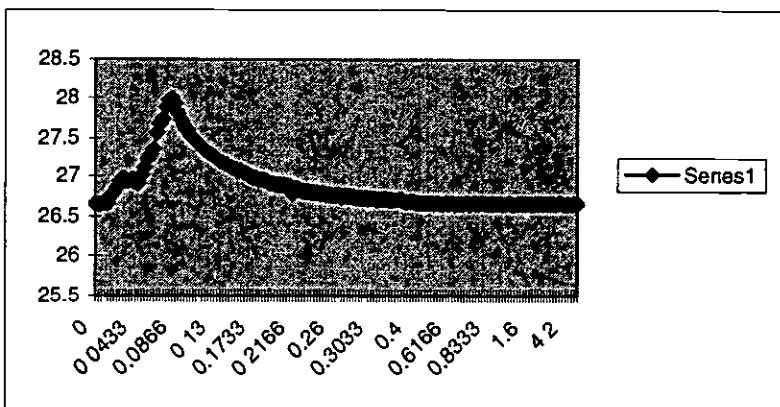
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 26
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSEC 50

Step 1 01/23 9:24:12

Elapsed Time INPUT 1



0	26.661	0	0
0.0033	26.652	0.0033	-0.009
0.0066	26.661	0.0066	0
0.01	26.67	0.01	0.009
0.0133	26.67	0.0133	0.009
0.0166	26.764	0.0166	0.103
0.02	26.791	0.02	0.13
0.0233	26.857	0.0233	0.196
0.0266	26.931	0.0266	0.27
0.03	26.978	0.03	0.317
0.0333	26.941	0.0333	0.28
0.0366	26.941	0.0366	0.28
0.04	26.968	0.04	0.307
0.0433	26.922	0.0433	0.261
0.0466	26.913	0.0466	0.252
0.05	27.015	0.05	0.354
0.0533	27.108	0.0533	0.447
0.0566	27.229	0.0566	0.568
0.06	27.285	0.06	0.624
0.0633	27.36	0.0633	0.699
0.0666	27.565	0.0666	0.904
0.07	27.676	0.07	1.015
0.0733	27.732	0.0733	1.071
0.0766	27.881	0.0766	1.22
0.08	27.965	0.08	1.304
0.0833	27.993	0.0833	1.332
0.0866	27.928	0.0866	1.267
0.09	27.797	0.09	1.136
0.0933	27.714	0.0933	1.053

0.0966	27.639	0.0966	0.978
0.1	27.593	0.1	0.932
0.1033	27.537	0.1033	0.876
0.1066	27.49	0.1066	0.829
0.11	27.453	0.11	0.792
0.1133	27.416	0.1133	0.755
0.1166	27.378	0.1166	0.717
0.12	27.341	0.12	0.68
0.1233	27.313	0.1233	0.652
0.1266	27.285	0.1266	0.624
0.13	27.257	0.13	0.596
0.1333	27.22	0.1333	0.559
0.1366	27.192	0.1366	0.531
0.14	27.173	0.14	0.512
0.1433	27.155	0.1433	0.494
0.1466	27.127	0.1466	0.466
0.15	27.108	0.15	0.447
0.1533	27.099	0.1533	0.438
0.1566	27.062	0.1566	0.401
0.16	27.08	0.16	0.419
0.1633	27.052	0.1633	0.391
0.1666	27.024	0.1666	0.363
0.17	27.006	0.17	0.345
0.1733	26.987	0.1733	0.326
0.1766	26.978	0.1766	0.317
0.18	26.959	0.18	0.298
0.1833	26.959	0.1833	0.298
0.1866	26.95	0.1866	0.289
0.19	26.922	0.19	0.261
0.1933	26.913	0.1933	0.252
0.1966	26.903	0.1966	0.242
0.2	26.894	0.2	0.233
0.2033	26.894	0.2033	0.233
0.2066	26.894	0.2066	0.233
0.21	26.885	0.21	0.224
0.2133	26.875	0.2133	0.214
0.2166	26.791	0.2166	0.13
0.22	26.857	0.22	0.196
0.2233	26.838	0.2233	0.177
0.2266	26.819	0.2266	0.158
0.23	26.81	0.23	0.149
0.2333	26.81	0.2333	0.149
0.2366	26.801	0.2366	0.14
0.24	26.801	0.24	0.14
0.2433	26.801	0.2433	0.14
0.2466	26.782	0.2466	0.121
0.25	26.791	0.25	0.13
0.2533	26.773	0.2533	0.112
0.2566	26.773	0.2566	0.112
0.26	26.764	0.26	0.103
0.2633	26.764	0.2633	0.103
0.2666	26.773	0.2666	0.112

0.27	26.745	0.27	0.084
0.2733	26.764	0.2733	0.103
0.2766	26.754	0.2766	0.093
0.28	26.754	0.28	0.093
0.2833	26.745	0.2833	0.084
0.2866	26.736	0.2866	0.075
0.29	26.736	0.29	0.075
0.2933	26.736	0.2933	0.075
0.2966	26.736	0.2966	0.075
0.3	26.726	0.3	0.065
0.3033	26.726	0.3033	0.065
0.3066	26.726	0.3066	0.065
0.31	26.708	0.31	0.047
0.3133	26.717	0.3133	0.056
0.3166	26.717	0.3166	0.056
0.32	26.717	0.32	0.056
0.3233	26.708	0.3233	0.047
0.3266	26.708	0.3266	0.047
0.33	26.708	0.33	0.047
0.3333	26.708	0.3333	0.047
0.35	26.708	0.35	0.047
0.3666	26.689	0.3666	0.028
0.3833	26.68	0.3833	0.019
0.4	26.689	0.4	0.028
0.4166	26.689	0.4166	0.028
0.4333	26.67	0.4333	0.009
0.45	26.67	0.45	0.009
0.4666	26.67	0.4666	0.009
0.4833	26.67	0.4833	0.009
0.5	26.67	0.5	0.009
0.5166	26.67	0.5166	0.009
0.5333	26.661	0.5333	0
0.55	26.67	0.55	0.009
0.5666	26.661	0.5666	0
0.5833	26.661	0.5833	0
0.6	26.67	0.6	0.009
0.6166	26.661	0.6166	0
0.6333	26.67	0.6333	0.009
0.65	26.652	0.65	-0.009
0.6666	26.661	0.6666	0
0.6833	26.661	0.6833	0
0.7	26.661	0.7	0
0.7166	26.67	0.7166	0.009
0.7333	26.652	0.7333	-0.009
0.75	26.67	0.75	0.009
0.7666	26.661	0.7666	0
0.7833	26.661	0.7833	0
0.8	26.67	0.8	0.009
0.8166	26.661	0.8166	0
0.8333	26.661	0.8333	0
0.85	26.661	0.85	0
0.8666	26.661	0.8666	0

0.8833	26.661	0.8833	0
0.9	26.661	0.9	0
0.9166	26.652	0.9166	-0.009
0.9333	26.652	0.9333	-0.009
0.95	26.67	0.95	0.009
0.9666	26.652	0.9666	-0.009
0.9833	26.652	0.9833	-0.009
1	26.661	1	0
1.2	26.661	1.2	0
1.4	26.661	1.4	0
1.6	26.661	1.6	0
1.8	26.661	1.8	0
2	26.652	2	-0.009
2.2	26.661	2.2	0
2.4	26.661	2.4	0
2.6	26.661	2.6	0
2.8	26.661	2.8	0
3	26.661	3	0
3.2	26.661	3.2	0
3.4	26.661	3.4	0
3.6	26.652	3.6	-0.009
3.8	26.67	3.8	0.009
4	26.661	4	0
4.2	26.652	4.2	-0.009
4.4	26.661	4.4	0
4.6	26.652	4.6	-0.009
4.8	26.661	4.8	0
5	26.661	5	0

CH2M/HILL
**SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL
 HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD**

Well ID: WCHMMHTA02

Value

Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	24.67
Length of submerged screen, L_e (ft)	20.00
(if $L_w < L_e$, set $L_e = L_w$)	
Height of water in aquifer, H (ft)	24.67
Initial (max.) water level drawdown from static, $y(0)$ (ft) / y-intercept	1.03

If $L_w \ll L_e$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c .

Porosity of sandpack, n (fraction)
(if porosity unknown, type "ND")

Adjusted radius of casing, r_c

$$r_c = ((1-n)r_c^2 + n(r_w^2))^{1/2}$$

0.083 No adjustment performed

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$$K = [(r_c^2 / (4\pi r_w))] / (L_e) (1/t) (\ln(y(0)/t))$$

where

t = time (min)

y = drawdown from static water level

R_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(R_e/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(R_e/r_w) = (1 / \ln(L_w/r_w)) * (A + B * \ln((H - L_w) / r_w) / (L_e / r_w))^{1/2}$$

where A and B are obtained from data curves

$$L_e / r_w = 48$$

$$L_e / r_w = 48$$

If the well is fully penetrating

$$\ln(R_e/r_w) = (1 / \ln(L_w/r_w)) * C / (L_e / r_w)^{1/2}$$

where C is obtained from a data curve

$$C = 2.63$$

Since the well is fully penetrating

$\ln(R_e/r_w) = 3.98$

From the semi-log drawdown vs. time plot

$$Y\text{-intercept}, y(0) (\text{feet}) = 1.03$$

$$Y\text{-value}, y(t), at time, t, (\text{feet}) = 0.34$$

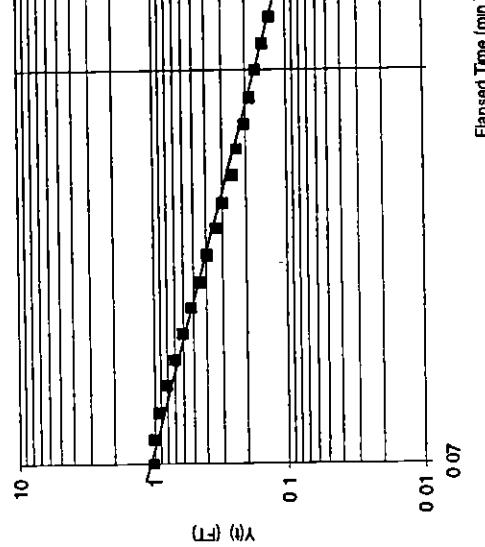
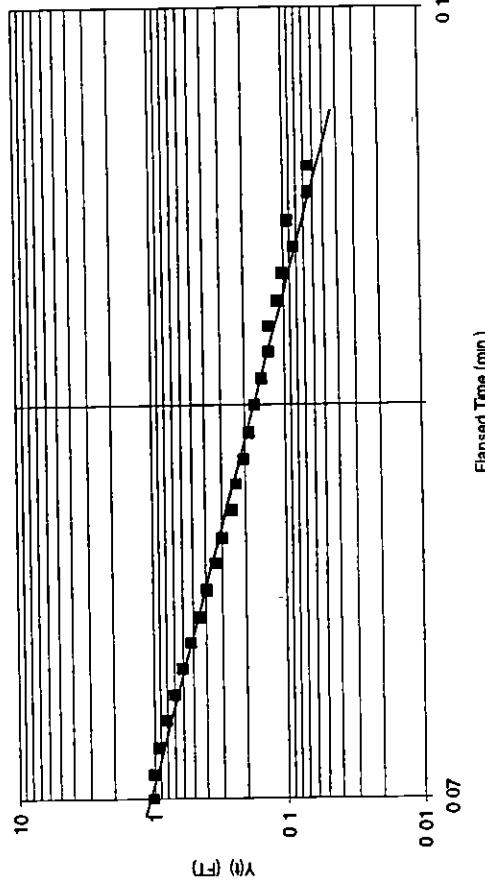
$$Time, t (\text{min}) = 0.10$$

Solving for horizontal hydraulic conductivity, K

$$K = 8.60 \times 10^{-10} \text{ ft/day}$$

$$K = 3.04 \times 10^{-3} \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w$. L_e , a double straight-line effect may be noted in the water level response curve.



Elapsed Time (min)

652 231

SE100 OC
 Environmental Logger
 01/23 1 0:25

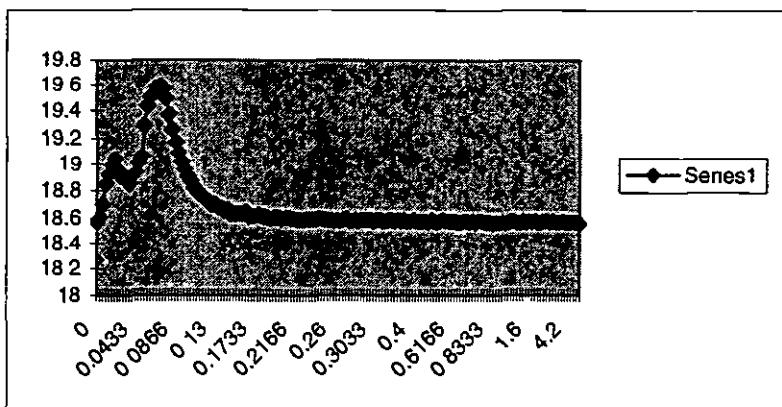
Unit# 0001 Test 5

Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 19.5
 Linearity 0.32
 Scale factc 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 8:49:16



Elapsed Ti INPUT 1

0	18.567	0	0
0.0033	18.604	0.0033	0.037
0.0066	18.698	0.0066	0.131
0.01	18.847	0.01	0.28
0.0133	18.921	0.0133	0.354
0.0166	18.996	0.0166	0.429
0.02	19.043	0.02	0.476
0.0233	18.959	0.0233	0.392
0.0266	18.903	0.0266	0.336
0.03	18.903	0.03	0.336
0.0333	18.866	0.0333	0.299
0.0366	18.847	0.0366	0.28
0.04	18.912	0.04	0.345
0.0433	18.94	0.0433	0.373
0.0466	19.015	0.0466	0.448
0.05	19.061	0.05	0.494
0.0533	19.294	0.0533	0.727
0.0566	19.434	0.0566	0.867
0.06	19.5	0.06	0.933
0.0633	19.527	0.0633	0.96
0.0666	19.583	0.0666	1.016
0.07	19.593	0.07	1.026
0.0733	19.574	0.0733	1.007
0.0766	19.49	0.0766	0.923
0.08	19.369	0.08	0.802
0.0833	19.266	0.0833	0.699
0.0866	19.173	0.0866	0.606
0.09	19.089	0.09	0.522
0.0933	19.015	0.0933	0.448

0.0966	18.959	0.0966	0.392
0.1	18.903	0.1	0.336
0.1033	18.866	0.1033	0.299
0.1066	18.819	0.1066	0.252
0.11	18.8	0.11	0.233
0.1133	18.772	0.1133	0.205
0.1166	18.754	0.1166	0.187
0.12	18.735	0.12	0.168
0.1233	18.716	0.1233	0.149
0.1266	18.698	0.1266	0.131
0.13	18.698	0.13	0.131
0.1333	18.679	0.1333	0.112
0.1366	18.67	0.1366	0.103
0.14	18.651	0.14	0.084
0.1433	18.66	0.1433	0.093
0.1466	18.632	0.1466	0.065
0.15	18.632	0.15	0.065
0.1533	18.632	0.1533	0.065
0.1566	18.632	0.1566	0.065
0.16	18.632	0.16	0.065
0.1633	18.642	0.1633	0.075
0.1666	18.614	0.1666	0.047
0.17	18.614	0.17	0.047
0.1733	18.614	0.1733	0.047
0.1766	18.623	0.1766	0.056
0.18	18.614	0.18	0.047
0.1833	18.614	0.1833	0.047
0.1866	18.604	0.1866	0.037
0.19	18.595	0.19	0.028
0.1933	18.604	0.1933	0.037
0.1966	18.604	0.1966	0.037
0.2	18.604	0.2	0.037
0.2033	18.595	0.2033	0.028
0.2066	18.604	0.2066	0.037
0.21	18.604	0.21	0.037
0.2133	18.595	0.2133	0.028
0.2166	18.595	0.2166	0.028
0.22	18.586	0.22	0.019
0.2233	18.586	0.2233	0.019
0.2266	18.586	0.2266	0.019
0.23	18.595	0.23	0.028
0.2333	18.595	0.2333	0.028
0.2366	18.595	0.2366	0.028
0.24	18.595	0.24	0.028
0.2433	18.595	0.2433	0.028
0.2466	18.595	0.2466	0.028
0.25	18.586	0.25	0.019
0.2533	18.586	0.2533	0.019
0.2566	18.586	0.2566	0.019
0.26	18.577	0.26	0.01
0.2633	18.586	0.2633	0.019
0.2666	18.577	0.2666	0.01

0.27	18.586	0.27	0.019
0.2733	18.595	0.2733	0.028
0.2766	18.577	0.2766	0.01
0.28	18.577	0.28	0.01
0.2833	18.586	0.2833	0.019
0.2866	18.577	0.2866	0.01
0.29	18.586	0.29	0.019
0.2933	18.586	0.2933	0.019
0.2966	18.586	0.2966	0.019
0.3	18.586	0.3	0.019
0.3033	18.577	0.3033	0.01
0.3066	18.586	0.3066	0.019
0.31	18.586	0.31	0.019
0.3133	18.577	0.3133	0.01
0.3166	18.577	0.3166	0.01
0.32	18.586	0.32	0.019
0.3233	18.586	0.3233	0.019
0.3266	18.577	0.3266	0.01
0.33	18.586	0.33	0.019
0.3333	18.577	0.3333	0.01
0.35	18.586	0.35	0.019
0.3666	18.577	0.3666	0.01
0.3833	18.577	0.3833	0.01
0.4	18.586	0.4	0.019
0.4166	18.577	0.4166	0.01
0.4333	18.577	0.4333	0.01
0.45	18.577	0.45	0.01
0.4666	18.577	0.4666	0.01
0.4833	18.567	0.4833	0
0.5	18.586		
0.5166	18.577		
0.5333	18.567		
0.55	18.577		
0.5666	18.586		
0.5833	18.577		
0.6	18.577		
0.6166	18.577		
0.6333	18.577		
0.65	18.567		
0.6666	18.567		
0.6833	18.577		
0.7	18.577		
0.7166	18.567		
0.7333	18.577		
0.75	18.567		
0.7666	18.577		
0.7833	18.577		
0.8	18.567		
0.8166	18.567		
0.8333	18.567		
0.85	18.558		
0.8666	18.567		

0.8833	18.567
0.9	18.567
0.9166	18.558
0.9333	18.567
0.95	18.577
0.9666	18.577
0.9833	18.567
1	18.567
1.2	18.577
1.4	18.567
1.6	18.577
1.8	18.567
2	18.577
2.2	18.567
2.4	18.567
2.6	18.577
2.8	18.577
3	18.567
3.2	18.577
3.4	18.567
3.6	18.567
3.8	18.577
4	18.567
4.2	18.567
4.4	18.567
4.6	18.567
4.8	18.567
5	18.558

CH2MHILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD
Well ID: WCHMHTA003

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	9.12
Length of submerged screen, L_s (ft)	10.00
(if $L_w < L_s$, set $L_s = L_w$)	
Height of water in aquifer, H (ft)	
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	9.12
	1.81
If $L_w < L_s$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c	0.20
Porosity of sandpack, n (fraction) (if porosity unknown, type "ND")	
Adjusted radius of casing, r_c	
$r_c = (1-n)r_c^{*2} + n(r_w^{*2})^{1/2}$	0.201
r_c (ft) =	

From the Theis equation, horizontal hydraulic conductivity, K , can be calculated as.

$$K = (r_c^{*2} \ln(r_e/r_w)) / (2L_s) (H/L_w) \ln(y(0)/y(t))$$

where

t = time (min)

y = drawdown from static water level

r_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(r_e/r_w)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(r_e/r_w) = (1 / \ln(L_w/r_w)) + A + B \ln((H - L_w) / r_w) / ((L_s / r_w)^{1/2})$$

where A and B are obtained from data curves

$$L_s / r_w = 24$$

$$L_s / r_w = 24$$

$$\ln(r_e/r_w) = (1 / \ln(L_w/r_w)) + C / (L_s / r_w)^{1/2}$$

where C is obtained from a data curve

$$C = 1.78$$

Since the well is fully penetrating

$$\ln(r_e/r_w) = 2.32$$

From the semi-log drawdown vs. time plot

$$Y\text{-intercept}, y(0) (\text{feet}) =$$

$$Y\text{-value}, y(t), \text{ at time, } t, (\text{feet}) =$$

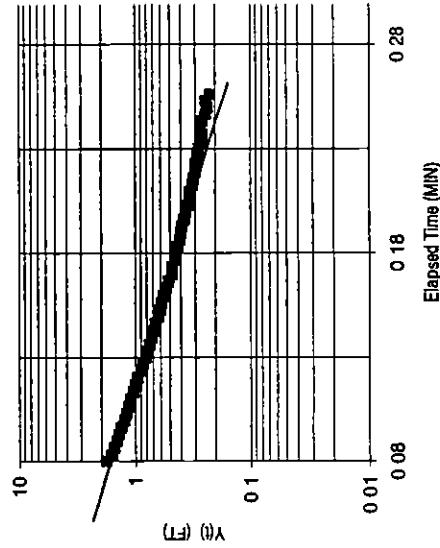
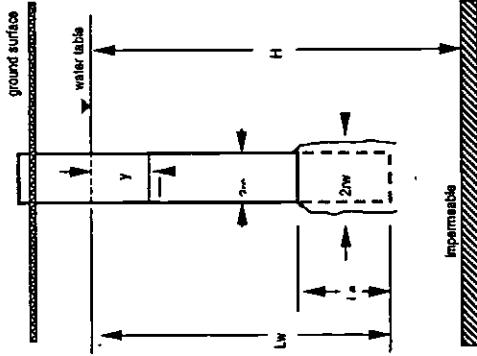
$$\text{Time}, t, (\text{min}) =$$

Solving for horizontal hydraulic conductivity, K

$$K = 5.24E+01 \text{ ft/day}$$

$$K = 1.85E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_s$, a double straight-line effect may be noted in the water level response curve
 Double straight-line may occur



652 236

Otmw-3a RAW DATA

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 Environmental Logger
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Unit# 0001 Test 5

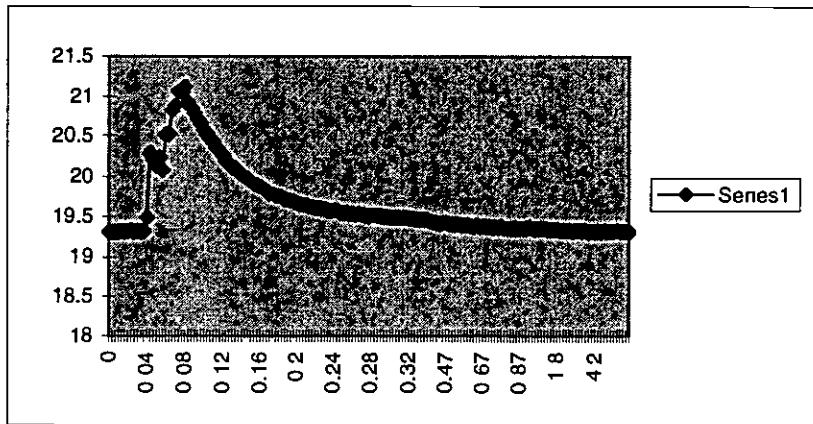
Setups: INPUT 1

Type	Level (F)
Mode	TOC
I.D.	923

Reference	19.32
Linearity	0.32
Scale factc	29.34
Offset	0.01
Delay mSE	50

Step 0 01/ 15:57:01

Elapsed Ti INPUT 1



0	19.31	0	0
0.0033	19.31	0.0033	0
0.0066	19.31	0.0066	0
0.01	19.31	0.01	0
0.0133	19.32	0.0133	0.01
0.0166	19.31	0.0166	0
0.02	19.32	0.02	0.01
0.0233	19.329	0.0233	0.019
0.0266	19.31	0.0266	0
0.03	19.32	0.03	0.01
0.0333	19.31	0.0333	0
0.0366	19.32	0.0366	0.01
0.04	19.487	0.04	0.177
0.0433	20.294	0.0433	0.984
0.0466	20.211	0.0466	0.901
0.05	20.136	0.05	0.826
0.0533	20.238	0.0533	0.928
0.0566	20.081	0.0566	0.771
0.06	20.517	0.06	1.207
0.0633	20.517	0.0633	1.207
0.0666	20.823	0.0666	1.513
0.07	20.888	0.07	1.578
0.0733	21.064	0.0733	1.754
0.0766	21.055	0.0766	1.745
0.08	21.12	0.08	1.81
0.0833	20.925	0.0833	1.615
0.0866	20.851	0.0866	1.541
0.09	20.777	0.09	1.467
0.0933	20.702	0.0933	1.392

0.0966	20.647	0.0966	1.337
0.1	20.563	0.1	1.253
0.1033	20.517	0.1033	1.207
0.1066	20.452	0.1066	1.142
0.11	20.415	0.11	1.105
0.1133	20.35	0.1133	1.04
0.1166	20.313	0.1166	1.003
0.12	20.266	0.12	0.956
0.1233	20.201	0.1233	0.891
0.1266	20.164	0.1266	0.854
0.13	20.118	0.13	0.808
0.1333	20.108	0.1333	0.798
0.1366	20.062	0.1366	0.752
0.14	20.025	0.14	0.715
0.1433	19.997	0.1433	0.687
0.1466	19.979	0.1466	0.669
0.15	19.941	0.15	0.631
0.1533	19.914	0.1533	0.604
0.1566	19.895	0.1566	0.585
0.16	19.876	0.16	0.566
0.1633	19.849	0.1633	0.539
0.1666	19.821	0.1666	0.511
0.17	19.784	0.17	0.474
0.1733	19.784	0.1733	0.474
0.1766	19.756	0.1766	0.446
0.18	19.756	0.18	0.446
0.1833	19.737	0.1833	0.427
0.1866	19.719	0.1866	0.409
0.19	19.709	0.19	0.399
0.1933	19.7	0.1933	0.39
0.1966	19.682	0.1966	0.372
0.2	19.672	0.2	0.362
0.2033	19.654	0.2033	0.344
0.2066	19.644	0.2066	0.334
0.21	19.644	0.21	0.334
0.2133	19.626	0.2133	0.316
0.2166	19.617	0.2166	0.307
0.22	19.607	0.22	0.297
0.2233	19.607	0.2233	0.297
0.2266	19.598	0.2266	0.288
0.23	19.589	0.23	0.279
0.2333	19.57	0.2333	0.26
0.2366	19.57	0.2366	0.26
0.24	19.579	0.24	0.269
0.2433	19.57	0.2433	0.26
0.2466	19.552	0.2466	0.242
0.25	19.542	0.25	0.232
0.2533	19.552	0.2533	0.242
0.2566	19.533	0.2566	0.223
0.26	19.533	0.26	0.223
0.2633	19.524	0.2633	0.214
0.2666	19.533	0.2666	0.223

0.27	19.524	0.27	0.214
0.2733	19.514	0.2733	0.204
0.2766	19.505	0.2766	0.195
0.28	19.514	0.28	0.204
0.2833	19.514	0.2833	0.204
0.2866	19.505	0.2866	0.195
0.29	19.505	0.29	0.195
0.2933	19.496	0.2933	0.186
0.2966	19.496	0.2966	0.186
0.3	19.487	0.3	0.177
0.3033	19.487	0.3033	0.177
0.3066	19.487	0.3066	0.177
0.31	19.487	0.31	0.177
0.3133	19.487	0.3133	0.177
0.3166	19.487	0.3166	0.177
0.32	19.477	0.32	0.167
0.3233	19.477	0.3233	0.167
0.3266	19.468	0.3266	0.158
0.33	19.468	0.33	0.158
0.3333	19.468	0.3333	0.158
0.35	19.459	0.35	0.149
0.3666	19.459	0.3666	0.149
0.3833	19.44	0.3833	0.13
0.4	19.431	0.4	0.121
0.4166	19.422	0.4166	0.112
0.4333	19.412	0.4333	0.102
0.45	19.422	0.45	0.112
0.4666	19.422	0.4666	0.112
0.4833	19.412	0.4833	0.102
0.5	19.403	0.5	0.093
0.5166	19.403	0.5166	0.093
0.5333	19.403	0.5333	0.093
0.55	19.394	0.55	0.084
0.5666	19.394	0.5666	0.084
0.5833	19.394	0.5833	0.084
0.6	19.385	0.6	0.075
0.6166	19.375	0.6166	0.065
0.6333	19.394	0.6333	0.084
0.65	19.375	0.65	0.065
0.6666	19.385	0.6666	0.075
0.6833	19.375	0.6833	0.065
0.7	19.375	0.7	0.065
0.7166	19.366	0.7166	0.056
0.7333	19.366	0.7333	0.056
0.75	19.366	0.75	0.056
0.7666	19.375	0.7666	0.065
0.7833	19.357	0.7833	0.047
0.8	19.357	0.8	0.047
0.8166	19.357	0.8166	0.047
0.8333	19.357	0.8333	0.047
0.85	19.357	0.85	0.047
0.8666	19.357	0.8666	0.047

0.8833	19.357	0.8833	0.047
0.9	19.357	0.9	0.047
0.9166	19.366	0.9166	0.056
0.9333	19.357	0.9333	0.047
0.95	19.347	0.95	0.037
0.9666	19.357	0.9666	0.047
0.9833	19.357	0.9833	0.047
1	19.357	1	0.047
1.2	19.338	1.2	0.028
1.4	19.338	1.4	0.028
1.6	19.338	1.6	0.028
1.8	19.338	1.8	0.028
2	19.329	2	0.019
2.2	19.329	2.2	0.019
2.4	19.329	2.4	0.019
2.6	19.329	2.6	0.019
2.8	19.32	2.8	0.01
3	19.329	3	0.019
3.2	19.329	3.2	0.019
3.4	19.32	3.4	0.01
3.6	19.329	3.6	0.019
3.8	19.31	3.8	0
4	19.32	4	0.01
4.2	19.31	4.2	0
4.4	19.32	4.4	0.01
4.6	19.31	4.6	0
4.8	19.329	4.8	0.019
5	19.32	5	0.01
5.2	19.32	5.2	0.01
5.4	19.32	5.4	0.01
5.6	19.329	5.6	0.019
5.8	19.32	5.8	0.01
6	19.32	6	0.01
6.2	19.32	6.2	0.01
6.4	19.31	6.4	0

CH2M HILL
**SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL
 HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD**

Well ID: WCHMHTA004

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	18.02
Length of submerged screen, L_e (ft)	10.00
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft)	18.02
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	1.20
// $L_w < L_e$, porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, r_c'	
Porosity of sandpack, η (fraction)	0.20
(if porosity unknown, type 'ND')	
Adjusted radius of casing, r_c'	
$r_c' = (1-\eta)r_c^{''2} + \eta(r_w^{''2})^{1/2}$	0.983
r_c' (ft) =	

// $L_w < L_e$, porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, r_c'

$$\ln(R/e) = (r_c'^{''2} / (2L_e)) / (1/\eta) \ln(y(t)/y(0))$$

where
 t = time (min)
 y = drawdown from static water level
 R_e = effective radial distance over which y (drawdown) is dissipated

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as

$$K = (r_c'^{''2} / (4\pi T)) / (2L_e) \ln(y(0)/y(t))$$

where
 T = transmissivity

The value of $\ln(R/e)$ depends on the penetration of the well into the aquifer.

If the well is partially penetrating ($L_w < H$).

$$\ln(R/e) = (1 / \ln(L_w/H) + A + B \ln(H - L_w) / (R_e / (w)))^{1/2}$$

where A and B are obtained from data curves

$$Le / rw = 24$$

SE100 OC
 Environmental Logger
 01/21 1 3:46

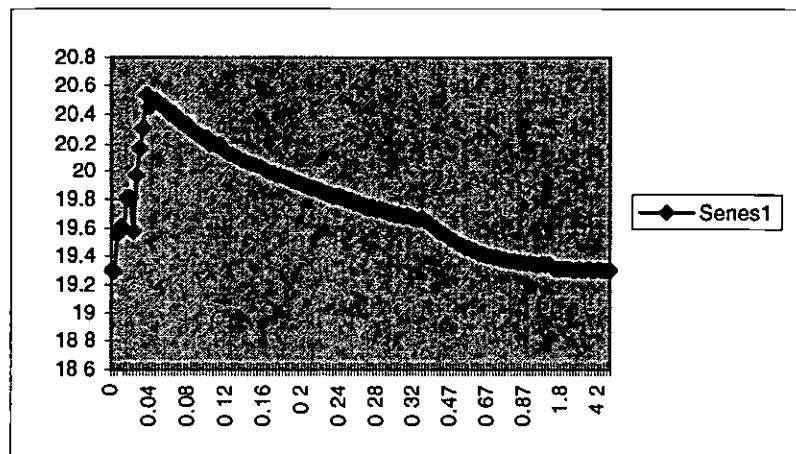
Unit# 0001 Test 17

Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 19.33
 Linearity 0.32
 Scale facto 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 11:48:33



Elapsed Ti INPUT 1

0	19.302	0	0
0.0033	19.292	0.0033	-0.01
0.0066	19.552	0.0066	0.25
0.01	19.617	0.01	0.315
0.0133	19.599	0.0133	0.297
0.0166	19.812	0.0166	0.51
0.02	19.812	0.02	0.51
0.0233	19.58	0.0233	0.278
0.0266	19.969	0.0266	0.667
0.03	20.173	0.03	0.871
0.0333	20.313	0.0333	1.011
0.0366	20.535	0.0366	1.233
0.04	20.452	0.04	1.15
0.0433	20.498	0.0433	1.196
0.0466	20.498	0.0466	1.196
0.05	20.479	0.05	1.177
0.0533	20.461	0.0533	1.159
0.0566	20.442	0.0566	1.14
0.06	20.414	0.06	1.112
0.0633	20.414	0.0633	1.112
0.0666	20.387	0.0666	1.085
0.07	20.377	0.07	1.075
0.0733	20.35	0.0733	1.048
0.0766	20.34	0.0766	1.038
0.08	20.331	0.08	1.029
0.0833	20.303	0.0833	1.001
0.0866	20.285	0.0866	0.983
0.09	20.275	0.09	0.973
0.0933	20.257	0.0933	0.955

0.0966	20.238	0.0966	0.936
0.1	20.248	0.1	0.946
0.1033	20.201	0.1033	0.899
0.1066	20.211	0.1066	0.909
0.11	20.192	0.11	0.89
0.1133	20.201	0.1133	0.899
0.1166	20.164	0.1166	0.862
0.12	20.146	0.12	0.844
0.1233	20.127	0.1233	0.825
0.1266	20.127	0.1266	0.825
0.13	20.109	0.13	0.807
0.1333	20.099	0.1333	0.797
0.1366	20.081	0.1366	0.779
0.14	20.081	0.14	0.779
0.1433	20.062	0.1433	0.76
0.1466	20.053	0.1466	0.751
0.15	20.053	0.15	0.751
0.1533	20.034	0.1533	0.732
0.1566	20.034	0.1566	0.732
0.16	20.016	0.16	0.714
0.1633	19.997	0.1633	0.695
0.1666	19.988	0.1666	0.686
0.17	19.988	0.17	0.686
0.1733	19.969	0.1733	0.667
0.1766	19.969	0.1766	0.667
0.18	19.96	0.18	0.658
0.1833	19.951	0.1833	0.649
0.1866	19.942	0.1866	0.64
0.19	19.932	0.19	0.63
0.1933	19.923	0.1933	0.621
0.1966	19.914	0.1966	0.612
0.2	19.905	0.2	0.603
0.2033	19.895	0.2033	0.593
0.2066	19.886	0.2066	0.584
0.21	19.877	0.21	0.575
0.2133	19.877	0.2133	0.575
0.2166	19.867	0.2166	0.565
0.22	19.858	0.22	0.556
0.2233	19.849	0.2233	0.547
0.2266	19.84	0.2266	0.538
0.23	19.83	0.23	0.528
0.2333	19.821	0.2333	0.519
0.2366	19.821	0.2366	0.519
0.24	19.821	0.24	0.519
0.2433	19.812	0.2433	0.51
0.2466	19.802	0.2466	0.5
0.25	19.793	0.25	0.491
0.2533	19.793	0.2533	0.491
0.2566	19.775	0.2566	0.473
0.26	19.775	0.26	0.473
0.2633	19.765	0.2633	0.463
0.2666	19.756	0.2666	0.454

0.27	19.747	0.27	0.445
0.2733	19.747	0.2733	0.445
0.2766	19.747	0.2766	0.445
0.28	19.728	0.28	0.426
0.2833	19.738	0.2833	0.436
0.2866	19.728	0.2866	0.426
0.29	19.719	0.29	0.417
0.2933	19.71	0.2933	0.408
0.2966	19.71	0.2966	0.408
0.3	19.7	0.3	0.398
0.3033	19.7	0.3033	0.398
0.3066	19.691	0.3066	0.389
0.31	19.682	0.31	0.38
0.3133	19.691	0.3133	0.389
0.3166	19.682	0.3166	0.38
0.32	19.673	0.32	0.371
0.3233	19.663	0.3233	0.361
0.3266	19.663	0.3266	0.361
0.33	19.673	0.33	0.371
0.3333	19.654	0.3333	0.352
0.35	19.645	0.35	0.343
0.3666	19.617	0.3666	0.315
0.3833	19.608	0.3833	0.306
0.4	19.58	0.4	0.278
0.4166	19.571	0.4166	0.269
0.4333	19.561	0.4333	0.259
0.45	19.543	0.45	0.241
0.4666	19.524	0.4666	0.222
0.4833	19.515	0.4833	0.213
0.5	19.496	0.5	0.194
0.5166	19.487	0.5166	0.185
0.5333	19.478	0.5333	0.176
0.55	19.459	0.55	0.157
0.5666	19.459	0.5666	0.157
0.5833	19.441	0.5833	0.139
0.6	19.441	0.6	0.139
0.6166	19.422	0.6166	0.12
0.6333	19.422	0.6333	0.12
0.65	19.413	0.65	0.111
0.6666	19.404	0.6666	0.102
0.6833	19.404	0.6833	0.102
0.7	19.394	0.7	0.092
0.7166	19.394	0.7166	0.092
0.7333	19.385	0.7333	0.083
0.75	19.376	0.75	0.074
0.7666	19.376	0.7666	0.074
0.7833	19.367	0.7833	0.065
0.8	19.367	0.8	0.065
0.8166	19.367	0.8166	0.065
0.8333	19.357	0.8333	0.055
0.85	19.357	0.85	0.055
0.8666	19.357	0.8666	0.055

0.8833	19.348	0.8833	0.046
0.9	19.357	0.9	0.055
0.9166	19.348	0.9166	0.046
0.9333	19.339	0.9333	0.037
0.95	19.339	0.95	0.037
0.9666	19.348	0.9666	0.046
0.9833	19.339	0.9833	0.037
1	19.348	1	0.046
1.2	19.33	1.2	0.028
1.4	19.311	1.4	0.009
1.6	19.311	1.6	0.009
1.8	19.311	1.8	0.009
2	19.311	2	0.009
2.2	19.311	2.2	0.009
2.4	19.311	2.4	0.009
2.6	19.302	2.6	0
2.8	19.302	2.8	0
3	19.311	3	0.009
3.2	19.302	3.2	0
3.4	19.302	3.4	0
3.6	19.311	3.6	0.009
3.8	19.302	3.8	0
4	19.302	4	0
4.2	19.311	4.2	0.009
4.4	19.302	4.4	0
4.6	19.302	4.6	0
4.8	19.302	4.8	0
5	19.302	5	0

CH2MHILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOWMUR & RICE METHOD

[Well ID: WCHMHTA005]

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	5.00
Length of well submergence, Lw (ft)	10.10
Length of submerged screen, Le (ft)	10.00
(if $Lw < Le$, let $Le = Lw$)	
Height of water in aquifer, H (ft)	
Initial (max.) water level drawdown from static, $y(0)$ (ft) (y-intercept)	10.10
r_c (ft) = 0.30	
$r_c^2 / rw^2 + n(rw^2)^{1/2}$ = 0.053	No adjustment performed

// $Lw < Le$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c .
 Porosity of sandpack, n (fraction)
 (if porosity unknown, type "ND")
 Adjusted radius of casing, r_c
 $r_c' = (1-n)r_c^2 + n(rw^2)^{1/2}$
 r_c' (ft) = 0.053 No adjustment performed

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as
 $K = (r_c'^2 \ln(Re/rw)) / (2Le) (H/y(0))/y(t)$
 where
 t = time (min)
 y = drawdown from static water level
 Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($Lw < H$)
 $\ln(Re/rw) = (1/t) \ln((Lw/rw) + (A + B \ln((H - Lw)/rw))^{1/2})^{-1}$

where A and B are obtained from data curves

$$\begin{aligned} A &= \boxed{} \\ B &= \boxed{} \end{aligned}$$

If the well is fully penetrating

$$\ln(Re/rw) = (1/t) \ln(Lw/rw) + C / (Lw/rw)^{1/2}$$

where C is obtained from a data curve

$$\begin{aligned} C &= \boxed{1.78} \\ Le/rw &= 24 \end{aligned}$$

Since the well is fully penetrating,
 $\ln(Re/rw) = 2.39$

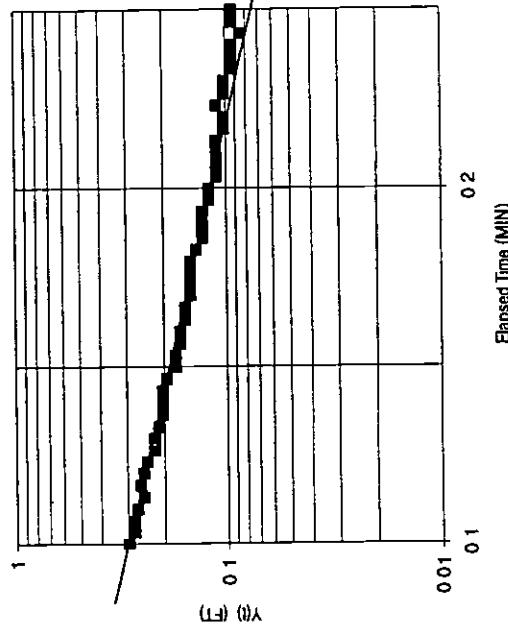
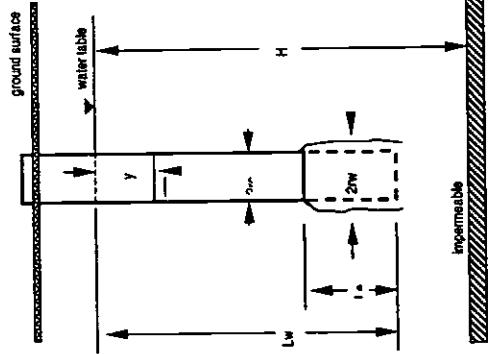
From the semi-log drawdown vs time plot

$$\begin{array}{l} Y\text{-intercept, } y(0) \text{ (feet)} = 0.30 \\ Y\text{-value, } y(t), \text{ at time, } t \text{, (feet)} = 0.12 \\ \text{Time, } t \text{ (min)} = 0.20 \end{array}$$

Solving for horizontal hydraulic conductivity, K

$$K = 5.35E-03 \text{ ft/day} \quad K = 1.89E-03 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw - Le$, a double straight-line may occur



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Otgmi-5a RAW DATA

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 Environmental Logger
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Unit# 0001 Test 3

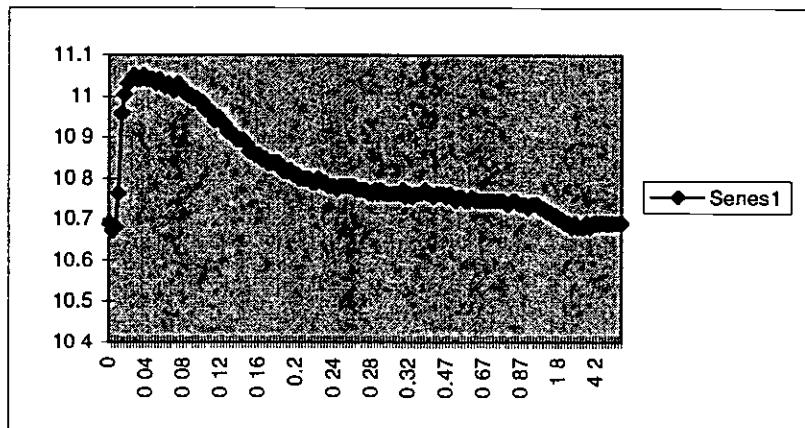
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 10.7
 Linearity 0.32
 Scale factor 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 16:07:45

Elapsed Tm INPUT 1



0	10.69	0	0
0.0033	10.672	0.0033	-0.018
0.0066	10.681	0.0066	-0.009
0.01	10.764	0.01	0.074
0.0133	10.959	0.0133	0.269
0.0166	11.005	0.0166	0.315
0.02	11.033	0.02	0.343
0.0233	11.042	0.0233	0.352
0.0266	11.052	0.0266	0.362
0.03	11.042	0.03	0.352
0.0333	11.042	0.0333	0.352
0.0366	11.052	0.0366	0.362
0.04	11.042	0.04	0.352
0.0433	11.042	0.0433	0.352
0.0466	11.042	0.0466	0.352
0.05	11.033	0.05	0.343
0.0533	11.042	0.0533	0.352
0.0566	11.033	0.0566	0.343
0.06	11.024	0.06	0.334
0.0633	11.033	0.0633	0.343
0.0666	11.024	0.0666	0.334
0.07	11.015	0.07	0.325
0.0733	11.033	0.0733	0.343
0.0766	11.024	0.0766	0.334
0.08	11.015	0.08	0.325
0.0833	11.005	0.0833	0.315
0.0866	11.005	0.0866	0.315
0.09	10.996	0.09	0.306
0.0933	10.996	0.0933	0.306

0.0966	10.987	0.0966	0.297
0.1	10.987	0.1	0.297
0.1033	10.968	0.1033	0.278
0.1066	10.968	0.1066	0.278
0.11	10.959	0.11	0.269
0.1133	10.941	0.1133	0.251
0.1166	10.95	0.1166	0.26
0.12	10.941	0.12	0.251
0.1233	10.931	0.1233	0.241
0.1266	10.913	0.1266	0.223
0.13	10.913	0.13	0.223
0.1333	10.903	0.1333	0.213
0.1366	10.894	0.1366	0.204
0.14	10.894	0.14	0.204
0.1433	10.894	0.1433	0.204
0.1466	10.885	0.1466	0.195
0.15	10.866	0.15	0.176
0.1533	10.866	0.1533	0.176
0.1566	10.857	0.1566	0.167
0.16	10.857	0.16	0.167
0.1633	10.848	0.1633	0.158
0.1666	10.848	0.1666	0.158
0.17	10.839	0.17	0.149
0.1733	10.839	0.1733	0.149
0.1766	10.839	0.1766	0.149
0.18	10.839	0.18	0.149
0.1833	10.829	0.1833	0.139
0.1866	10.82	0.1866	0.13
0.19	10.82	0.19	0.13
0.1933	10.82	0.1933	0.13
0.1966	10.811	0.1966	0.121
0.2	10.811	0.2	0.121
0.2033	10.801	0.2033	0.111
0.2066	10.801	0.2066	0.111
0.21	10.801	0.21	0.111
0.2133	10.801	0.2133	0.111
0.2166	10.792	0.2166	0.102
0.22	10.792	0.22	0.102
0.2233	10.801	0.2233	0.111
0.2266	10.792	0.2266	0.102
0.23	10.792	0.23	0.102
0.2333	10.783	0.2333	0.093
0.2366	10.783	0.2366	0.093
0.24	10.783	0.24	0.093
0.2433	10.774	0.2433	0.084
0.2466	10.783	0.2466	0.093
0.25	10.783	0.25	0.093
0.2533	10.783	0.2533	0.093
0.2566	10.783	0.2566	0.093
0.26	10.783	0.26	0.093
0.2633	10.774	0.2633	0.084
0.2666	10.774	0.2666	0.084

0.27	10.774	0.27	0.084
0.2733	10.774	0.2733	0.084
0.2766	10.764	0.2766	0.074
0.28	10.764	0.28	0.074
0.2833	10.774	0.2833	0.084
0.2866	10.764	0.2866	0.074
0.29	10.774	0.29	0.084
0.2933	10.764	0.2933	0.074
0.2966	10.764	0.2966	0.074
0.3	10.764	0.3	0.074
0.3033	10.764	0.3033	0.074
0.3066	10.764	0.3066	0.074
0.31	10.764	0.31	0.074
0.3133	10.774	0.3133	0.084
0.3166	10.755	0.3166	0.065
0.32	10.764	0.32	0.074
0.3233	10.755	0.3233	0.065
0.3266	10.764	0.3266	0.074
0.33	10.764	0.33	0.074
0.3333	10.764	0.3333	0.074
0.35	10.774	0.35	0.084
0.3666	10.764	0.3666	0.074
0.3833	10.764	0.3833	0.074
0.4	10.755	0.4	0.065
0.4166	10.764	0.4166	0.074
0.4333	10.764	0.4333	0.074
0.45	10.764	0.45	0.074
0.4666	10.755	0.4666	0.065
0.4833	10.764	0.4833	0.074
0.5	10.755	0.5	0.065
0.5166	10.746	0.5166	0.056
0.5333	10.755	0.5333	0.065
0.55	10.755	0.55	0.065
0.5666	10.746	0.5666	0.056
0.5833	10.746	0.5833	0.056
0.6	10.755	0.6	0.065
0.6166	10.746	0.6166	0.056
0.6333	10.746	0.6333	0.056
0.65	10.746	0.65	0.056
0.6666	10.746	0.6666	0.056
0.6833	10.746	0.6833	0.056
0.7	10.746	0.7	0.056
0.7166	10.746	0.7166	0.056
0.7333	10.746	0.7333	0.056
0.75	10.746	0.75	0.056
0.7666	10.746	0.7666	0.056
0.7833	10.737	0.7833	0.047
0.8	10.737	0.8	0.047
0.8166	10.746	0.8166	0.056
0.8333	10.746	0.8333	0.056
0.85	10.737	0.85	0.047
0.8666	10.737	0.8666	0.047

0.8833	10.737	0.8833	0.047
0.9	10.727	0.9	0.037
0.9166	10.737	0.9166	0.047
0.9333	10.737	0.9333	0.047
0.95	10.737	0.95	0.047
0.9666	10.727	0.9666	0.037
0.9833	10.727	0.9833	0.037
1	10.718	1	0.028
1.2	10.718	1.2	0.028
1.4	10.709	1.4	0.019
1.6	10.709	1.6	0.019
1.8	10.7	1.8	0.01
2	10.7	2	0.01
2.2	10.69	2.2	0
2.4	10.69	2.4	0
2.6	10.681	2.6	-0.009
2.8	10.69	2.8	0
3	10.681	3	-0.009
3.2	10.681	3.2	-0.009
3.4	10.681	3.4	-0.009
3.6	10.69	3.6	0
3.8	10.681	3.8	-0.009
4	10.69	4	0
4.2	10.69	4.2	0
4.4	10.69	4.4	0
4.6	10.69	4.6	0
4.8	10.69	4.8	0
5	10.69	5	0
5.2	10.69	5.2	0
5.4	10.69	5.4	0
5.6	10.69	5.6	0
5.8	10.69	5.8	0

CH2M Hill
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD
Well ID: WCHMHTA006

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	5.00
Length of well submergence, L_w (ft)	20.09
Length of submerged screen, L_s (ft)	10.00
(if $L_w < L_s$, let $L_s = L_w$)	
Height of water in aquifer, H (ft)	20.09
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	1.34

If $L_w \ll L_s$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, n (fraction)	0.20
--------------------------------------	------

(if porosity unknown, type "ND")

Adjusted radius of casing, r_c'

$$r_c' = [(1-n)r_c^2 + n(rw^2)]^{1/2}$$

$r_c'(ft) =$	0.083 No adjustment performed
--------------	-------------------------------

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as

$$K = (r_c'^2 / \ln(r_c'/rw)) / 2L_s (t/t_f) (\ln(y(0)/y(t)))$$

where

t = time (min)

y = drawdown from static water level

R_e = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(R_e/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(R_e/rw) = (1 / \ln(L_w/rw)) + (A + B \ln((H - L_w) / rw) / (L_s / rw))^{-1}$$

where A and B are obtained from data curves

$L_s / rw =$	A =
$L_s / rw =$	B =

====> If the well is fully penetrating

$$\ln(R_e/rw) = (1 / \ln(L_w/rw)) + C / (L_s / rw)^{-1}$$

where C is obtained from a data curve

$L_s / rw =$	C =
$L_s / rw =$	1.78

Since the well is fully penetrating

$$\ln(R_e/rw) =$$

2.79

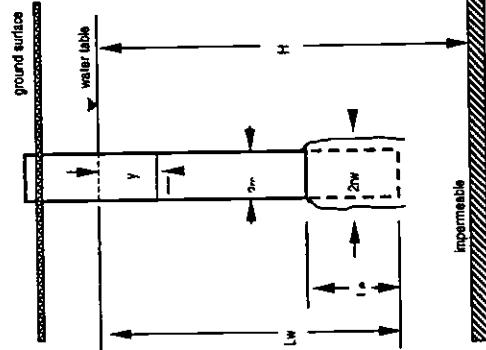
From the semi-log drawdown vs time plot

$y_{\text{intercept}}, y(0)$ (feet) =	1.34
y -value, $y(t)$, at time, t , (feet) =	0.24
Time, t (min) =	0.15

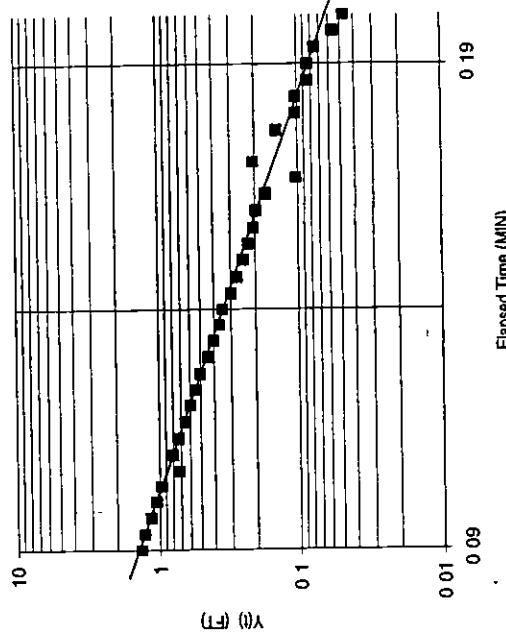
Solving for horizontal hydraulic conductivity, K

$K =$	1.59E-01 ft/day
$K =$	5.61E-03 cm/s

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_s$, a double straight-line effect may be noted in the water level response curve
 Double straight-line should not occur



WCHMHTA006



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 Environmental Logger
 01/20 1 4:31

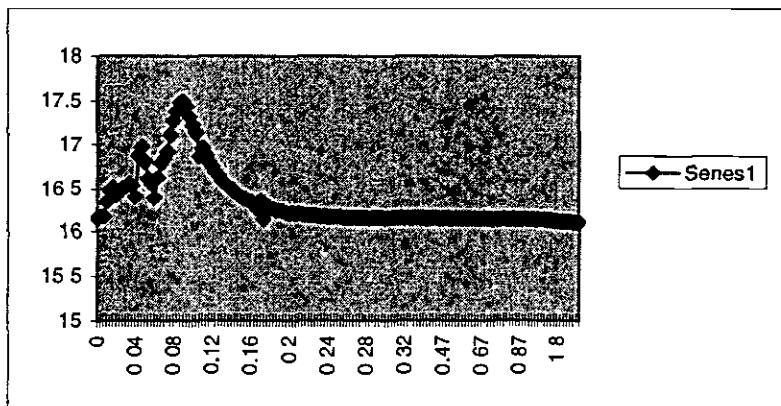
Unit# 0001 Test 7

Setups: INPUT 1

Type	Level (F)
Mode	TOC
I.D.	923
Reference	16.22
Linearity	0.32
Scale factc	29.34
Offset	0.01
Delay mSE	50

Step 0 01/ 13.33:09

Elapsed Ti: INPUT 1



0	16.154	0	0
0.0033	16.164	0.0033	0.01
0.0066	16.164	0.0066	0.01
0.01	16.341	0.01	0.187
0.0133	16.471	0.0133	0.317
0.0166	16.518	0.0166	0.364
0.02	16.415	0.02	0.261
0.0233	16.452	0.0233	0.298
0.0266	16.508	0.0266	0.354
0.03	16.518	0.03	0.364
0.0333	16.564	0.0333	0.41
0.0366	16.536	0.0366	0.382
0.04	16.397	0.04	0.243
0.0433	16.881	0.0433	0.727
0.0466	16.974	0.0466	0.82
0.05	16.816	0.05	0.662
0.0533	16.62	0.0533	0.466
0.0566	16.555	0.0566	0.401
0.06	16.387	0.06	0.233
0.0633	16.629	0.0633	0.475
0.0666	16.797	0.0666	0.643
0.07	16.844	0.07	0.69
0.0733	16.918	0.0733	0.764
0.0766	17.104	0.0766	0.95
0.08	17.263	0.08	1.109
0.0833	17.375	0.0833	1.221
0.0866	17.477	0.0866	1.323
0.09	17.496	0.09	1.342
0.0933	17.431	0.0933	1.277

0.0966	17.309	0.0966	1.155
0.1	17.207	0.1	1.053
0.1033	17.123	0.1033	0.969
0.1066	16.872	0.1066	0.718
0.11	16.955	0.11	0.801
0.1133	16.881	0.1133	0.727
0.1166	16.806	0.1166	0.652
0.12	16.751	0.12	0.597
0.1233	16.695	0.1233	0.541
0.1266	16.657	0.1266	0.503
0.13	16.592	0.13	0.438
0.1333	16.555	0.1333	0.401
0.1366	16.518	0.1366	0.364
0.14	16.499	0.14	0.345
0.1433	16.452	0.1433	0.298
0.1466	16.425	0.1466	0.271
0.15	16.397	0.15	0.243
0.1533	16.378	0.1533	0.224
0.1566	16.359	0.1566	0.205
0.16	16.35	0.16	0.196
0.1633	16.322	0.1633	0.168
0.1666	16.257	0.1666	0.103
0.17	16.359	0.17	0.205
0.1733	16.136	0.1733	-0.018
0.1766	16.294	0.1766	0.14
0.18	16.257	0.18	0.103
0.1833	16.257	0.1833	0.103
0.1866	16.238	0.1866	0.084
0.19	16.238	0.19	0.084
0.1933	16.229	0.1933	0.075
0.1966	16.21	0.1966	0.056
0.2	16.201	0.2	0.047
0.2033	16.21	0.2033	0.056
0.2066	16.201	0.2066	0.047
0.21	16.201	0.21	0.047
0.2133	16.192	0.2133	0.038
0.2166	16.182	0.2166	0.028
0.22	16.182	0.22	0.028
0.2233	16.182	0.2233	0.028
0.2266	16.182	0.2266	0.028
0.23	16.173	0.23	0.019
0.2333	16.164	0.2333	0.01
0.2366	16.173	0.2366	0.019
0.24	16.164	0.24	0.01
0.2433	16.164	0.2433	0.01
0.2466	16.164	0.2466	0.01
0.25	16.164	0.25	0.01
0.2533	16.164	0.2533	0.01
0.2566	16.154	0.2566	0
0.26	16.154	0.26	0
0.2633	16.154	0.2633	0
0.2666	16.154	0.2666	0

0.27	16.154	0.27	0
0.2733	16.154	0.2733	0
0.2766	16.154	0.2766	0
0.28	16.154	0.28	0
0.2833	16.145	0.2833	-0.009
0.2866	16.154	0.2866	0
0.29	16.154	0.29	0
0.2933	16.154	0.2933	0
0.2966	16.154	0.2966	0
0.3	16.145	0.3	-0.009
0.3033	16.154	0.3033	0
0.3066	16.154	0.3066	0
0.31	16.154	0.31	0
0.3133	16.145	0.3133	-0.009
0.3166	16.154	0.3166	0
0.32	16.145	0.32	-0.009
0.3233	16.154	0.3233	0
0.3266	16.145	0.3266	-0.009
0.33	16.154	0.33	0
0.3333	16.154	0.3333	0
0.35	16.154	0.35	0
0.3666	16.154	0.3666	0
0.3833	16.145	0.3833	-0.009
0.4	16.145	0.4	-0.009
0.4166	16.154	0.4166	0
0.4333	16.154	0.4333	0
0.45	16.145	0.45	-0.009
0.4666	16.145	0.4666	-0.009
0.4833	16.154	0.4833	0
0.5	16.145	0.5	-0.009
0.5166	16.145	0.5166	-0.009
0.5333	16.145	0.5333	-0.009
0.55	16.145	0.55	-0.009
0.5666	16.145	0.5666	-0.009
0.5833	16.145	0.5833	-0.009
0.6	16.145	0.6	-0.009
0.6166	16.145	0.6166	-0.009
0.6333	16.145	0.6333	-0.009
0.65	16.145	0.65	-0.009
0.6666	16.145	0.6666	-0.009
0.6833	16.145	0.6833	-0.009
0.7	16.145	0.7	-0.009
0.7166	16.145	0.7166	-0.009
0.7333	16.136	0.7333	-0.018
0.75	16.136	0.75	-0.018
0.7666	16.136	0.7666	-0.018
0.7833	16.145	0.7833	-0.009
0.8	16.136	0.8	-0.018
0.8166	16.136	0.8166	-0.018
0.8333	16.145	0.8333	-0.009
0.85	16.136	0.85	-0.018
0.8666	16.136	0.8666	-0.018

0.8833	16.136	0.8833	-0.018
0.9	16.145	0.9	-0.009
0.9166	16.136	0.9166	-0.018
0.9333	16.136	0.9333	-0.018
0.95	16.136	0.95	-0.018
0.9666	16.136	0.9666	-0.018
0.9833	16.136	0.9833	-0.018
1	16.136	1	-0.018
1.2	16.126	1.2	-0.028
1.4	16.126	1.4	-0.028
1.6	16.117	1.6	-0.037
1.8	16.117	1.8	-0.037
2	16.108	2	-0.046
2.2	16.108	2.2	-0.046
2.4	16.108	2.4	-0.046
2.6	16.108	2.6	-0.046
2.8	16.098	2.8	-0.056
3	16.098	3	-0.056
3.2	16.098	3.2	-0.056

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWNER & RICE METHOD

Well ID: WCHMHTA007

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	5.00
Length of well submergence, L_w (ft)	18.33
Length of submerged screen, L_s (ft)	20.00
(if $L_w < L_s$, let $L_s = L_w$)	
Height of water in aquifer, H (ft)	
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	18.33
	0.60
	0.20
	0.201

If $L_w \ll L_s$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

Porosity of sandpack, n (fraction)

(if porosity unknown, type 'ND')

Adjusted radius of casing, r'_c .

$r'_c = ((1-n)r_c^2 + n(rw^2))^{1/2}$

r'_c (ft) =

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as
 $K = (r'_c)^2 \ln(Re/rw) / (2L_e) (t/t_f) \ln(y(0)/y(t))$
 where
 t = time (min)
 y = drawdown from static water level
 Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(Re/rw) = (1 / \ln(L_w/rw) + (A + B \ln(H - L_w) / rw) / (L_w / rw))^{-1}$$

where A and B are obtained from data curves

$$L_e / rw = 48$$

$$L_e / rw = 48$$

If the well is fully penetrating:

$$\ln(Re/rw) = (1 / \ln(L_w/rw) + C / (L_e / rw))^{-1}$$

where C is obtained from a data curve

$$C = 2.63$$

Since the well is fully penetrating

$$\ln(Re/rw) = 2.63$$

From the semi-log drawdown vs. time plot

Y-intercept, $y(0)$ (feet) =

Y-value, $y(t)$, at time, t , (feet) =

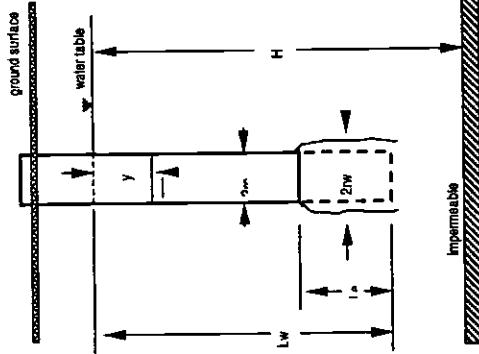
Time, t (min) =

0.60
0.08
0.17

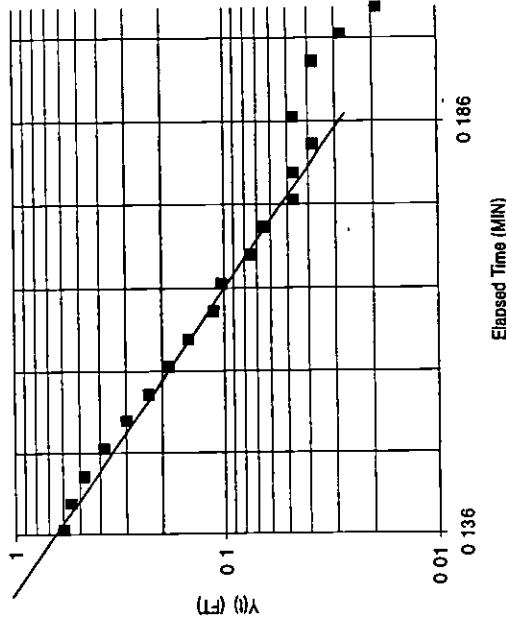
Solving for horizontal hydraulic conductivity, K

$$K = 5.12E-01 \text{ ft/day} \quad K = 1.81E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_s$, a double straight-line effect may be noted in the water level response curve
 Double straight-line may occur



WCHMHTA007



SE100 OC
 Environmental Logger
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Unit# 0001 Test 1

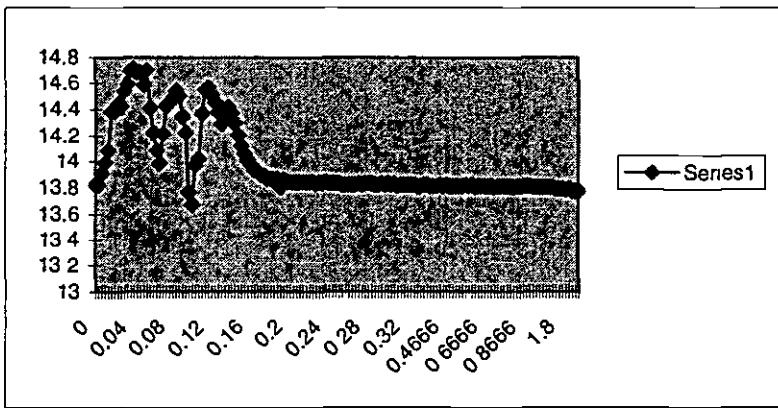
Setups: INPUT 1

Type	Level (F)
Mode	TOC
I.D.	923
Reference	13.86
Linearity	0.32
Scale factor	29.34
Offset	0.01
Delay mSE	50

Step 0 01/ 12:34:49

Elapsed T# INPUT 1

0	13.822	0	0
0.0033	13.822	0.0033	0
0.0066	13.906	0.0066	0.084
0.01	13.99	0.01	0.168
0.0133	14.083	0.0133	0.261
0.0166	14.39	0.0166	0.568
0.02	14.39	0.02	0.568
0.0233	14.446	0.0233	0.624
0.0266	14.418	0.0266	0.596
0.03	14.539	0.03	0.717
0.0333	14.595	0.0333	0.773
0.0366	14.697	0.0366	0.875
0.04	14.716	0.04	0.894
0.0433	14.679	0.0433	0.857
0.0466	14.688	0.0466	0.866
0.05	14.586	0.05	0.764
0.0533	14.697	0.0533	0.875
0.0566	14.409	0.0566	0.587
0.06	14.223	0.06	0.401
0.0633	14.083	0.0633	0.261
0.0666	13.981	0.0666	0.159
0.07	14.213	0.07	0.391
0.0733	14.427	0.0733	0.605
0.0766	14.455	0.0766	0.633
0.08	14.483	0.08	0.661
0.0833	14.539	0.0833	0.717
0.0866	14.502	0.0866	0.68
0.09	14.344	0.09	0.522
0.0933	14.223	0.0933	0.401



0.0966	13.766	0.0966	-0.056
0.1	13.673	0.1	-0.149
0.1033	13.971	0.1033	0.149
0.1066	14.018	0.1066	0.196
0.11	14.371	0.11	0.549
0.1133	14.548	0.1133	0.726
0.1166	14.567	0.1166	0.745
0.12	14.511	0.12	0.689
0.1233	14.455	0.1233	0.633
0.1266	14.381	0.1266	0.559
0.13	14.288	0.13	0.466
0.1333	14.325	0.1333	0.503
0.1366	14.418	0.1366	0.596
0.14	14.371	0.14	0.549
0.1433	14.297	0.1433	0.475
0.1466	14.204	0.1466	0.382
0.15	14.12	0.15	0.298
0.1533	14.055	0.1533	0.233
0.1566	14.008	0.1566	0.186
0.16	13.971	0.16	0.149
0.1633	13.934	0.1633	0.112
0.1666	13.925	0.1666	0.103
0.17	13.897	0.17	0.075
0.1733	13.887	0.1733	0.065
0.1766	13.869	0.1766	0.047
0.18	13.869	0.18	0.047
0.1833	13.86	0.1833	0.038
0.1866	13.869	0.1866	0.047
0.19	13.804	0.19	-0.018
0.1933	13.86	0.1933	0.038
0.1966	13.85	0.1966	0.028
0.2	13.841	0.2	0.019
0.2033	13.841	0.2033	0.019
0.2066	13.841	0.2066	0.019
0.21	13.841	0.21	0.019
0.2133	13.841	0.2133	0.019
0.2166	13.841	0.2166	0.019
0.22	13.841	0.22	0.019
0.2233	13.841	0.2233	0.019
0.2266	13.832	0.2266	0.01
0.23	13.841	0.23	0.019
0.2333	13.832	0.2333	0.01
0.2366	13.841	0.2366	0.019
0.24	13.832	0.24	0.01
0.2433	13.832	0.2433	0.01
0.2466	13.832	0.2466	0.01
0.25	13.832	0.25	0.01
0.2533	13.822	0.2533	0
0.2566	13.822	0.2566	0
0.26	13.822	0.26	0
0.2633	13.822	0.2633	0
0.2666	13.822	0.2666	0

0.27	13.832	0.27	0.01
0.2733	13.822	0.2733	0
0.2766	13.832	0.2766	0.01
0.28	13.832	0.28	0.01
0.2833	13.832	0.2833	0.01
0.2866	13.822	0.2866	0
0.29	13.822	0.29	0
0.2933	13.832	0.2933	0.01
0.2966	13.822	0.2966	0
0.3	13.832	0.3	0.01
0.3033	13.822	0.3033	0
0.3066	13.832	0.3066	0.01
0.31	13.813	0.31	-0.009
0.3133	13.822	0.3133	0
0.3166	13.822	0.3166	0
0.32	13.822	0.32	0
0.3233	13.822	0.3233	0
0.3266	13.822	0.3266	0
0.33	13.813	0.33	-0.009
0.3333	13.813	0.3333	-0.009
0.35	13.822	0.35	0
0.3666	13.822	0.3666	0
0.3833	13.813	0.3833	-0.009
0.4	13.813	0.4	-0.009
0.4166	13.813	0.4166	-0.009
0.4333	13.822	0.4333	0
0.45	13.813	0.45	-0.009
0.4666	13.822	0.4666	0
0.4833	13.813	0.4833	-0.009
0.5	13.813	0.5	-0.009
0.5166	13.813	0.5166	-0.009
0.5333	13.813	0.5333	-0.009
0.55	13.813	0.55	-0.009
0.5666	13.822	0.5666	0
0.5833	13.813	0.5833	-0.009
0.6	13.822	0.6	0
0.6166	13.804	0.6166	-0.018
0.6333	13.813	0.6333	-0.009
0.65	13.813	0.65	-0.009
0.6666	13.813	0.6666	-0.009
0.6833	13.813	0.6833	-0.009
0.7	13.813	0.7	-0.009
0.7166	13.804	0.7166	-0.018
0.7333	13.813	0.7333	-0.009
0.75	13.813	0.75	-0.009
0.7666	13.813	0.7666	-0.009
0.7833	13.813	0.7833	-0.009
0.8	13.813	0.8	-0.009
0.8166	13.804	0.8166	-0.018
0.8333	13.813	0.8333	-0.009
0.85	13.813	0.85	-0.009
0.8666	13.813	0.8666	-0.009

0.8833	13.813	0.8833	-0.009
0.9	13.813	0.9	-0.009
0.9166	13.804	0.9166	-0.018
0.9333	13.804	0.9333	-0.018
0.95	13.804	0.95	-0.018
0.9666	13.804	0.9666	-0.018
0.9833	13.804	0.9833	-0.018
1	13.804	1	-0.018
1.2	13.804	1.2	-0.018
1.4	13.794	1.4	-0.028
1.6	13.794	1.6	-0.028
1.8	13.794	1.8	-0.028
2	13.785	2	-0.037
2.2	13.794	2.2	-0.028
2.4	13.776	2.4	-0.046
2.6	13.776	2.6	-0.046
2.8	13.776	2.8	-0.046

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL
HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID: WCHMHTA009

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, rw (in)	5.00
Length of well submergence, Lw (ft)	3.50
Length of submerged screen, Le (ft)	7.50
(if $Lw = Le$, let $Le = Lw$)	
Height of water in aquifer, H (ft)	3.50
Initial (max) water level drawdown from static, $y(0)$ (ft) / y-intercept	0.78
If $Lw < Le$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c	0.20
Porosity of sandpack, n (fraction)	
(if porosity unknown, type 'ND')	
Adjusted radius of casing, r_c'	
$r_c' = ((1-n)r_c^2 + n(rw^2))^{1/2}$	0.201
r_c (ft) =	

If $Lw < Le$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c
 Porosity of sandpack, n (fraction)
 (if porosity unknown, type 'ND')
 Adjusted radius of casing, r_c'
 $r_c' = ((1-n)r_c^2 + n(rw^2))^{1/2}$
 r_c (ft) =

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as
 $K = [r_c^{*2} \ln(Re/rw) / (2Le)] (1/t) [\ln(y_0/y(t))]$
 where
 t = time (min)
 y = drawdown from static water level
 Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($Lw < H$)
 $\ln(Re/rw) = (1.1 / \ln(Lw/rw)) * (A + B \ln((H - Lw) / rw))^{1/2}$
 where A and B are obtained from data curves

$$\begin{aligned} A &= \boxed{} \\ B &= \boxed{} \\ Le / rw &= 18 \\ Le / rw &= 18 \end{aligned}$$

If the well is fully penetrating
 $\ln(Re/rw) = (1.1 / \ln(Lw/rw)) * C / (Le / rw)^{1/2}$
 where C is obtained from a data curve

$$\begin{aligned} Le / rw &= 18 \\ Le / rw &= 18 \\ C &= \boxed{1.62} \end{aligned}$$

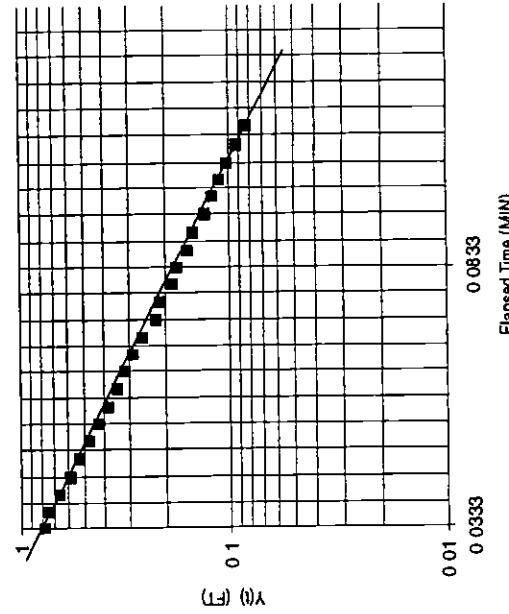
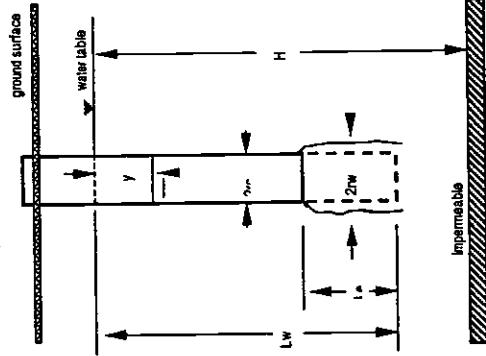
Since the well is fully penetrating
 $\ln(Re/rw) = \boxed{1.65}$

From the semi-log drawdown vs time plot.
 Y-intercept, $y(0)$ (feet) = 0.78
 Y-value, $y(t)$, at time, t , (feet) = 0.18
 Time, t (min) = 0.83

Solving for horizontal hydraulic conductivity, K

$$K = \frac{1.14E+01}{t/day} \quad K = \boxed{4.01E-03 \text{ cm/s}}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw - Le$, a double straight-line effect may be noted in the water level response curve



WCHMHTA009

SE100 OC
 Environmental Logger
 01/20 1 0:51

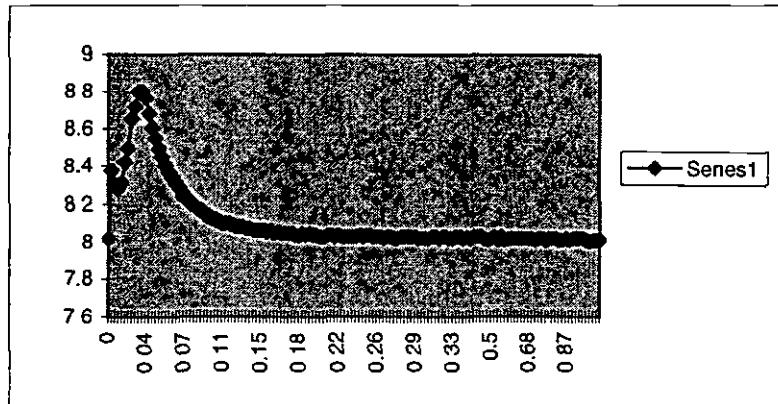
Unit# 0001 Test 7

Setups: INPUT 1

Type	Level (F)
Mode	TOC
I.D.	923
Reference	8.05
Linearity	0.32
Scale factor	29.34
Offset	0.01
Delay mSE	50

Step 0 01/ 9:12.43

Elapsed Ti INPUT 1



0	8.022	0	0
0.0033	8.374	0.0033	0.352
0.0066	8.3	0.0066	0.278
0.01	8.281	0.01	0.259
0.0133	8.309	0.0133	0.287
0.0166	8.42	0.0166	0.398
0.02	8.495	0.02	0.473
0.0233	8.652	0.0233	0.63
0.0266	8.717	0.0266	0.695
0.03	8.8	0.03	0.778
0.0333	8.8	0.0333	0.778
0.0366	8.763	0.0366	0.741
0.04	8.68	0.04	0.658
0.0433	8.606	0.0433	0.584
0.0466	8.55	0.0466	0.528
0.05	8.495	0.05	0.473
0.0533	8.448	0.0533	0.426
0.0566	8.402	0.0566	0.38
0.06	8.365	0.06	0.343
0.0633	8.337	0.0633	0.315
0.0666	8.309	0.0666	0.287
0.07	8.281	0.07	0.259
0.0733	8.244	0.0733	0.222
0.0766	8.235	0.0766	0.213
0.08	8.207	0.08	0.185
0.0833	8.198	0.0833	0.176
0.0866	8.179	0.0866	0.157
0.09	8.17	0.09	0.148
0.0933	8.152	0.0933	0.13

0.0966	8.142	0.0966	0.12
0.1	8.133	0.1	0.111
0.1033	8.124	0.1033	0.102
0.1066	8.114	0.1066	0.092
0.11	8.105	0.11	0.083
0.1133	8.105	0.1133	0.083
0.1166	8.105	0.1166	0.083
0.12	8.096	0.12	0.074
0.1233	8.087	0.1233	0.065
0.1266	8.087	0.1266	0.065
0.13	8.087	0.13	0.065
0.1333	8.077	0.1333	0.055
0.1366	8.077	0.1366	0.055
0.14	8.068	0.14	0.046
0.1433	8.068	0.1433	0.046
0.1466	8.068	0.1466	0.046
0.15	8.068	0.15	0.046
0.1533	8.059	0.1533	0.037
0.1566	8.068	0.1566	0.046
0.16	8.05	0.16	0.028
0.1633	8.059	0.1633	0.037
0.1666	8.05	0.1666	0.028
0.17	8.05	0.17	0.028
0.1733	8.05	0.1733	0.028
0.1766	8.05	0.1766	0.028
0.18	8.04	0.18	0.018
0.1833	8.04	0.1833	0.018
0.1866	8.05	0.1866	0.028
0.19	8.04	0.19	0.018
0.1933	8.05	0.1933	0.028
0.1966	8.04	0.1966	0.018
0.2	8.04	0.2	0.018
0.2033	8.031	0.2033	0.009
0.2066	8.031	0.2066	0.009
0.21	8.04	0.21	0.018
0.2133	8.04	0.2133	0.018
0.2166	8.031	0.2166	0.009
0.22	8.04	0.22	0.018
0.2233	8.031	0.2233	0.009
0.2266	8.031	0.2266	0.009
0.23	8.031	0.23	0.009
0.2333	8.031	0.2333	0.009
0.2366	8.031	0.2366	0.009
0.24	8.04	0.24	0.018
0.2433	8.031	0.2433	0.009
0.2466	8.04	0.2466	0.018
0.25	8.04	0.25	0.018
0.2533	8.031	0.2533	0.009
0.2566	8.031	0.2566	0.009
0.26	8.031	0.26	0.009
0.2633	8.022	0.2633	0
0.2666	8.031	0.2666	0.009

0.27	8.031	0.27	0.009
0.2733	8.022	0.2733	0
0.2766	8.022	0.2766	0
0.28	8.031	0.28	0.009
0.2833	8.031	0.2833	0.009
0.2866	8.031	0.2866	0.009
0.29	8.031	0.29	0.009
0.2933	8.031	0.2933	0.009
0.2966	8.022	0.2966	0
0.3	8.022	0.3	0
0.3033	8.022	0.3033	0
0.3066	8.022	0.3066	0
0.31	8.031	0.31	0.009
0.3133	8.031	0.3133	0.009
0.3166	8.022	0.3166	0
0.32	8.031	0.32	0.009
0.3233	8.031	0.3233	0.009
0.3266	8.022	0.3266	0
0.33	8.022	0.33	0
0.3333	8.031	0.3333	0.009
0.35	8.031	0.35	0.009
0.3666	8.022	0.3666	0
0.3833	8.031	0.3833	0.009
0.4	8.022	0.4	0
0.4166	8.031	0.4166	0.009
0.4333	8.031	0.4333	0.009
0.45	8.031	0.45	0.009
0.4666	8.022	0.4666	0
0.4833	8.012	0.4833	-0.01
0.5	8.022	0.5	0
0.5166	8.031	0.5166	0.009
0.5333	8.012	0.5333	-0.01
0.55	8.031	0.55	0.009
0.5666	8.012	0.5666	-0.01
0.5833	8.022	0.5833	0
0.6	8.022	0.6	0
0.6166	8.022	0.6166	0
0.6333	8.022	0.6333	0
0.65	8.022	0.65	0
0.6666	8.022	0.6666	0
0.6833	8.022	0.6833	0
0.7	8.022	0.7	0
0.7166	8.012	0.7166	-0.01
0.7333	8.022	0.7333	0
0.75	8.022	0.75	0
0.7666	8.012	0.7666	-0.01
0.7833	8.022	0.7833	0
0.8	8.022	0.8	0
0.8166	8.022	0.8166	0
0.8333	8.012	0.8333	-0.01
0.85	8.012	0.85	-0.01
0.8666	8.022	0.8666	0

Otmw-9a RAW DATA

652 264

0.8833	8.012	0.8833	-0.01
0.9	8.022	0.9	0
0.9166	8.022	0.9166	0
0.9333	8.022	0.9333	0
0.95	8.022	0.95	0
0.9666	8.012	0.9666	-0.01
0.9833	8.003	0.9833	-0.019
1	8.012	1	-0.01
1.2	8.012	1.2	-0.01
1.4	8.012	1.4	-0.01

CH2MHILL
**SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL
 HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD**

[Well ID: WCHMHTA010]

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	4.40
Length of submerged screen, L_e (ft)	10.00
(If $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft)	4.40
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	1.91
 // $L_w < L_e$, porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, r_c	
Porosity of sandpack, η (fraction)	0.20
(If porosity unknown, type "ND")	
Adjusted radius of casing, r_c'	
$r_c' = ((1-\eta)r_c^2 + \eta(r_w^2))^{1/2}$	0.201
r_c (ft) =	

// $L_w < L_e$, porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, r_c
 Porosity of sandpack, η (fraction)
 (If porosity unknown, type "ND")
 Adjusted radius of casing, r_c'
 $r_c' = ((1-\eta)r_c^2 + \eta(r_w^2))^{1/2}$
 r_c (ft) =

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as

$$K = (r_c'^2 \ln(Re/rw) / 2L_e) / (t \ln(y(0)/y(t)))$$

where

$$t = \text{time (min)}$$

$$y = \text{drawdown from static water level}$$

$$Re = \text{effective radial distance over which } y(\text{drawdown}) \text{ is dissipated}$$

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(Re/rw) = (1 / L_w) \ln(L_w / (H - L_w)) + (A + B \ln(H / (H - L_w)) / (rw / (L_w / rw)))^{-1}$$

where A and B are obtained from data curves

$$L_w / rw = 24$$

$$A = \boxed{}$$

$$B = \boxed{}$$

====> If the well is fully penetrating

$$\ln(Re/rw) = (1 / L_w) \ln(L_w / rw) + C / (L_w / rw)^{-1}$$

where C is obtained from a data curve

$$L_w / rw = 24$$

$$C = \boxed{1.78}$$

Since the well is fully penetrating

$$\ln(Re/rw) = \boxed{1.85}$$

From the semi-log drawdown vs. time plot

$$Y\text{-intercept, } y(0) \text{ (feet)} = \boxed{1.91}$$

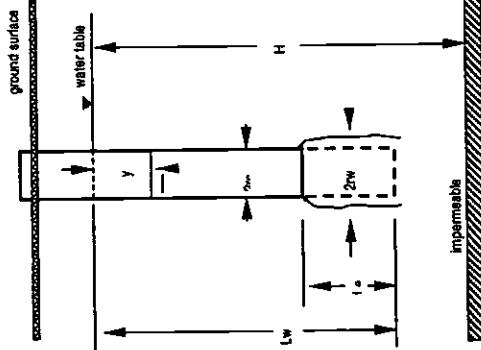
$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (feet)} = \boxed{0.64}$$

$$\text{Time, } t \text{ (min)} = \boxed{0.15}$$

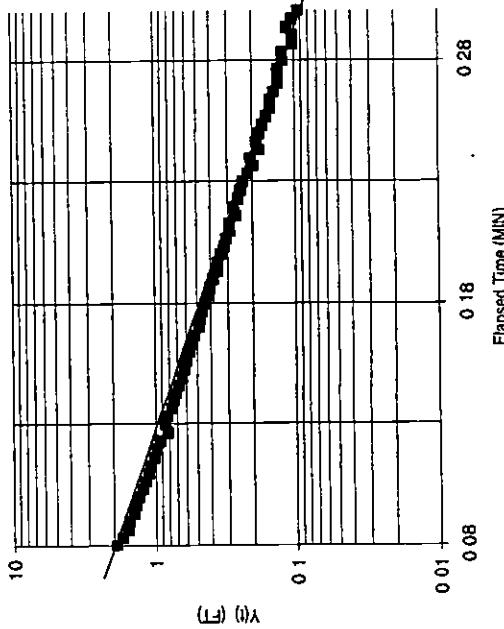
Solving for horizontal hydraulic conductivity, K

$$K = \boxed{3.08E-01} \text{ ft/day} \quad K = \boxed{1.37E-02} \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w - L_e$, a double straight-line effect may be noted in the water level response curve. Double straight-line may occur



WCHMHTA010



SE100 OC
 Environmental Logger
 01/20 1 0:59

Unit# 0001 Test 11

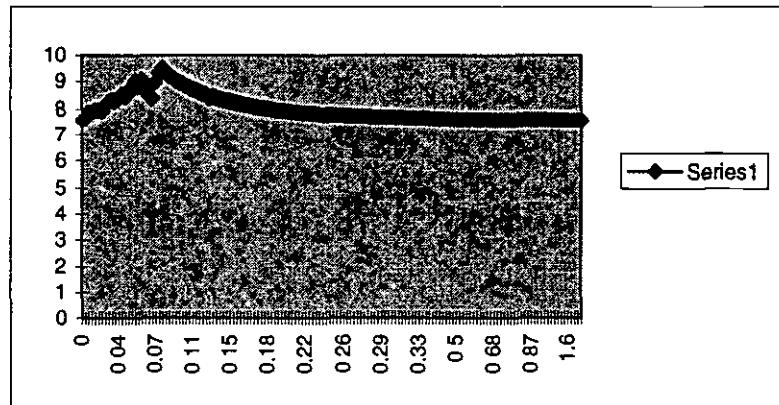
Setups: INPUT 1

Type Level (F)
 Mode TOC
 I.D. 923

Reference 7.86
 Linearity 0.32
 Scale factc 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 9:28:25

Elapsed Ti INPUT 1



0	7.608	0	0
0.0033	7.664	0.0033	0.056
0.0066	7.906	0.0066	0.298
0.01	7.897	0.01	0.289
0.0133	7.99	0.0133	0.382
0.0166	7.971	0.0166	0.363
0.02	7.953	0.02	0.345
0.0233	8.13	0.0233	0.522
0.0266	8.269	0.0266	0.661
0.03	8.334	0.03	0.726
0.0333	8.306	0.0333	0.698
0.0366	8.409	0.0366	0.801
0.04	8.548	0.04	0.94
0.0433	8.474	0.0433	0.866
0.0466	8.567	0.0466	0.959
0.05	8.818	0.05	1.21
0.0533	9.032	0.0533	1.424
0.0566	8.828	0.0566	1.22
0.06	9.06	0.06	1.452
0.0633	8.911	0.0633	1.303
0.0666	8.52	0.0666	0.912
0.07	8.39	0.07	0.782
0.0733	8.977	0.0733	1.369
0.0766	9.311	0.0766	1.703
0.08	9.516	0.08	1.908
0.0833	9.339	0.0833	1.731
0.0866	9.181	0.0866	1.573
0.09	9.153	0.09	1.545
0.0933	9.032	0.0933	1.424

0.0966	8.986	0.0966	1.378
0.1	8.93	0.1	1.322
0.1033	8.846	0.1033	1.238
0.1066	8.79	0.1066	1.182
0.11	8.725	0.11	1.117
0.1133	8.688	0.1133	1.08
0.1166	8.632	0.1166	1.024
0.12	8.586	0.12	0.978
0.1233	8.539	0.1233	0.931
0.1266	8.427	0.1266	0.819
0.13	8.465	0.13	0.857
0.1333	8.427	0.1333	0.819
0.1366	8.372	0.1366	0.764
0.14	8.344	0.14	0.736
0.1433	8.316	0.1433	0.708
0.1466	8.288	0.1466	0.68
0.15	8.251	0.15	0.643
0.1533	8.223	0.1533	0.615
0.1566	8.204	0.1566	0.596
0.16	8.176	0.16	0.568
0.1633	8.158	0.1633	0.55
0.1666	8.13	0.1666	0.522
0.17	8.092	0.17	0.484
0.1733	8.083	0.1733	0.475
0.1766	8.064	0.1766	0.456
0.18	8.046	0.18	0.438
0.1833	8.018	0.1833	0.41
0.1866	8.009	0.1866	0.401
0.19	7.99	0.19	0.382
0.1933	7.962	0.1933	0.354
0.1966	7.962	0.1966	0.354
0.2	7.943	0.2	0.335
0.2033	7.925	0.2033	0.317
0.2066	7.915	0.2066	0.307
0.21	7.897	0.21	0.289
0.2133	7.897	0.2133	0.289
0.2166	7.869	0.2166	0.261
0.22	7.878	0.22	0.27
0.2233	7.86	0.2233	0.252
0.2266	7.85	0.2266	0.242
0.23	7.841	0.23	0.233
0.2333	7.822	0.2333	0.214
0.2366	7.804	0.2366	0.196
0.24	7.813	0.24	0.205
0.2433	7.785	0.2433	0.177
0.2466	7.794	0.2466	0.186
0.25	7.785	0.25	0.177
0.2533	7.776	0.2533	0.168
0.2566	7.766	0.2566	0.158
0.26	7.757	0.26	0.149
0.2633	7.757	0.2633	0.149
0.2666	7.748	0.2666	0.14

0.27	7.739	0.27	0.131
0.2733	7.739	0.2733	0.131
0.2766	7.739	0.2766	0.131
0.28	7.729	0.28	0.121
0.2833	7.729	0.2833	0.121
0.2866	7.711	0.2866	0.103
0.29	7.711	0.29	0.103
0.2933	7.72	0.2933	0.112
0.2966	7.711	0.2966	0.103
0.3	7.701	0.3	0.093
0.3033	7.701	0.3033	0.093
0.3066	7.692	0.3066	0.084
0.31	7.692	0.31	0.084
0.3133	7.692	0.3133	0.084
0.3166	7.683	0.3166	0.075
0.32	7.673	0.32	0.065
0.3233	7.683	0.3233	0.075
0.3266	7.673	0.3266	0.065
0.33	7.673	0.33	0.065
0.3333	7.683	0.3333	0.075
0.35	7.664	0.35	0.056
0.3666	7.655	0.3666	0.047
0.3833	7.646	0.3833	0.038
0.4	7.636	0.4	0.028
0.4166	7.627	0.4166	0.019
0.4333	7.636	0.4333	0.028
0.45	7.636	0.45	0.028
0.4666	7.627	0.4666	0.019
0.4833	7.618	0.4833	0.01
0.5	7.627	0.5	0.019
0.5166	7.608	0.5166	0
0.5333	7.618	0.5333	0.01
0.55	7.618	0.55	0.01
0.5666	7.608	0.5666	0
0.5833	7.618	0.5833	0.01
0.6	7.608	0.6	0
0.6166	7.608	0.6166	0
0.6333	7.618	0.6333	0.01
0.65	7.618	0.65	0.01
0.6666	7.608	0.6666	0
0.6833	7.608	0.6833	0
0.7	7.599	0.7	-0.009
0.7166	7.608	0.7166	0
0.7333	7.608	0.7333	0
0.75	7.608	0.75	0
0.7666	7.608	0.7666	0
0.7833	7.608	0.7833	0
0.8	7.599	0.8	-0.009
0.8166	7.599	0.8166	-0.009
0.8333	7.608	0.8333	0
0.85	7.608	0.85	0
0.8666	7.608	0.8666	0

Otmw-10a RAW DATA

652 269

0.8833	7.599	0.8833	-0.009
0.9	7.608	0.9	0
0.9166	7.608	0.9166	0
0.9333	7.608	0.9333	0
0.95	7.599	0.95	-0.009
0.9666	7.608	0.9666	0
0.9833	7.599	0.9833	-0.009
1	7.599	1	-0.009
1.2	7.599	1.2	-0.009
1.4	7.59	1.4	-0.018
1.6	7.58	1.6	-0.028
1.8	7.58	1.8	-0.028
2	7.59	2	-0.018
2.2	7.58	2.2	-0.028
2.4	7.571	2.4	-0.037

CH2M HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD
[Well ID: WCHMHTA011]

	Value
Radius of casing, r_c (in)	1.00
Radius to undisturbed aquifer, r_w (in)	5.00
Length of well submergence, L_w (ft)	9.92
Length of submerged screen, L_e (ft)	10.00
(if $L_w < L_e$, let $L_e = L_w$)	
Height of water in aquifer, H (ft)	9.92
Initial (max) water level drawdown from static, $y(0)$ (ft) (y-intercept)	0.80
r_c / r_w =	0.20
$\ln(r_c / r_w)$ =	0.201

If $L_w < L_e$, porosity, n , of the gravel/sandpack must be accounted for in the radius of the casing, r_c

$$\begin{aligned} \text{Porosity of sandpack, } n &(\text{fraction}) & 0.20 \\ (\text{if porosity unknown, type "ND"}) \\ \text{Adjusted radius of casing, } r_c & \\ r_c &= (1-n)r_c^{**2} + n(r_w^{**2})^{**1/2} & 0.201 \end{aligned}$$

From the Theis equation, horizontal hydraulic conductivity, K can be calculated as.

$$K = (r_c^{**2} \ln(Re/rw)) / (2Le) (t / (t_f)) \ln(y(0)/y(t))$$

where t = time (min)

y = drawdown from static water level

Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($L_w < H$)

$$\ln(Re/rw) = (1 / \ln(L_w/rw)) + A + B \ln((H - L_w) / rw) / (Le / rw)^{**1}$$

where A and B are obtained from data curves

$$\begin{aligned} Le / rw &= 24 & A = \boxed{} \\ Le / rw &= 24 & B = \boxed{} \end{aligned}$$

====> If the well is fully penetrating,

$$\ln(Re/rw) = (1 / \ln(L_w/rw)) + C / (Le / rw)^{**1}$$

where C is obtained from a data curve

$$\begin{aligned} Le / rw &= 24 & C = \boxed{178} \\ \ln(Re/rw) &= 2.37 \end{aligned}$$

From the semi-log drawdown vs. time plot

$$Y\text{-intercept, } y(0) \text{ (left)} = \boxed{0.80}$$

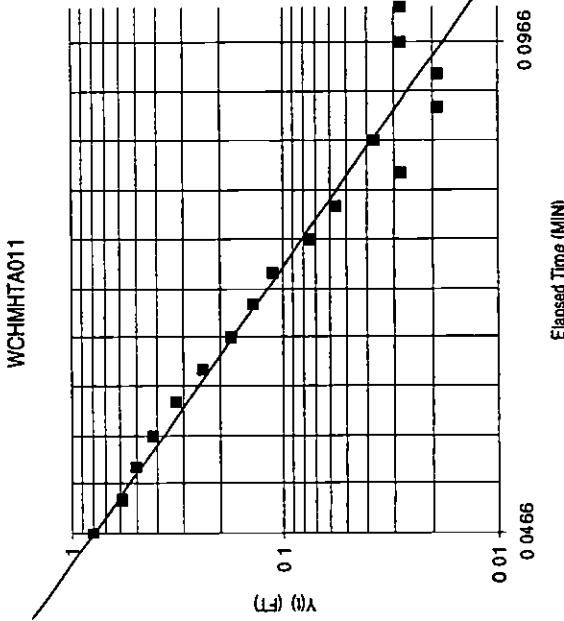
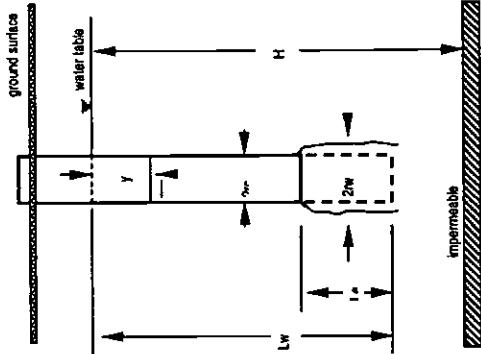
$$Y\text{-value, } y(t), \text{ at time, } t, \text{ (left)} = \boxed{0.06}$$

$$\text{Time, } t \text{ (min)} = \boxed{0.08}$$

Solving for horizontal hydraulic conductivity, K

$$\boxed{K = 2.29E+02 \text{ ft/day}} \quad \boxed{K = 8.07E-02 \text{ cm/s}}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > L_w$. I.e., a double straight-line effect may be noted in the water level response curve
Double straight-line may occur



File Mw11.xls

SE100 0C
 Environmental Logger
 01/20 1 1:07

Unit# 0001 Test 3

Setups INPUT 1

Type Level (F)
 Mode TOC

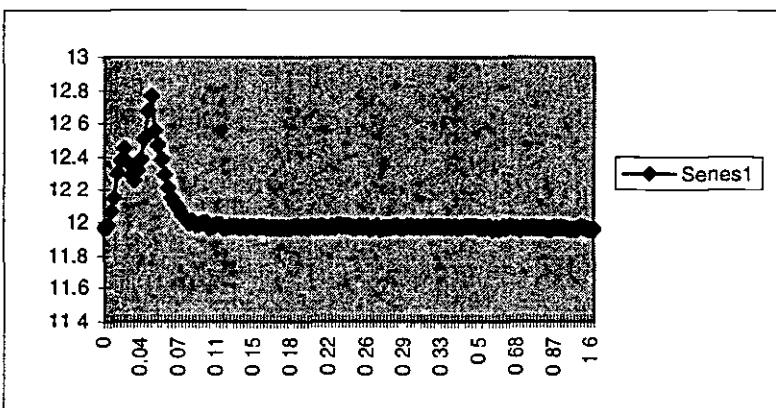
I.D. 923

Reference 12.08
 Linearity 0.32
 Scale factc 29.34
 Offset 0.01
 Delay mSE 50

Step 0 01/ 8:53:11

Elapsed T# INPUT 1

0	11.968	0	0
0.0033	11.977	0.0033	0.009
0.0066	12.061	0.0066	0.093
0.01	12.145	0.01	0.177
0.0133	12.302	0.0133	0.334
0.0166	12.377	0.0166	0.409
0.02	12.451	0.02	0.483
0.0233	12.367	0.0233	0.399
0.0266	12.293	0.0266	0.325
0.03	12.256	0.03	0.288
0.0333	12.321	0.0333	0.353
0.0366	12.386	0.0366	0.418
0.04	12.507	0.04	0.539
0.0433	12.674	0.0433	0.706
0.0466	12.767	0.0466	0.799
0.05	12.553	0.05	0.585
0.0533	12.47	0.0533	0.502
0.0566	12.386	0.0566	0.418
0.06	12.293	0.06	0.325
0.0633	12.21	0.0633	0.242
0.0666	12.145	0.0666	0.177
0.07	12.107	0.07	0.139
0.0733	12.08	0.0733	0.112
0.0766	12.042	0.0766	0.074
0.08	12.024	0.08	0.056
0.0833	11.996	0.0833	0.028
0.0866	12.005	0.0866	0.037
0.09	11.987	0.09	0.019
0.0933	11.987	0.0933	0.019



Otmw-11b RAW DATA

165281272

0.0966	11.996	0.0966	0.028
0.1	11.996	0.1	0.028
0.1033	11.968	0.1033	0
0.1066	11.977	0.1066	0.009
0.11	11.987	0.11	0.019
0.1133	11.987	0.1133	0.019
0.1166	11.968	0.1166	0
0.12	11.968	0.12	0
0.1233	11.977	0.1233	0.009
0.1266	11.977	0.1266	0.009
0.13	11.977	0.13	0.009
0.1333	11.968	0.1333	0
0.1366	11.977	0.1366	0.009
0.14	11.968	0.14	0
0.1433	11.977	0.1433	0.009
0.1466	11.977	0.1466	0.009
0.15	11.968	0.15	0
0.1533	11.977	0.1533	0.009
0.1566	11.977	0.1566	0.009
0.16	11.968	0.16	0
0.1633	11.968	0.1633	0
0.1666	11.968	0.1666	0
0.17	11.968	0.17	0
0.1733	11.968	0.1733	0
0.1766	11.968	0.1766	0
0.18	11.968	0.18	0
0.1833	11.968	0.1833	0
0.1866	11.977	0.1866	0.009
0.19	11.977	0.19	0.009
0.1933	11.968	0.1933	0
0.1966	11.977	0.1966	0.009
0.2	11.968	0.2	0
0.2033	11.977	0.2033	0.009
0.2066	11.968	0.2066	0
0.21	11.968	0.21	0
0.2133	11.977	0.2133	0.009
0.2166	11.968	0.2166	0
0.22	11.968	0.22	0
0.2233	11.977	0.2233	0.009
0.2266	11.968	0.2266	0
0.23	11.987	0.23	0.019
0.2333	11.977	0.2333	0.009
0.2366	11.977	0.2366	0.009
0.24	11.977	0.24	0.009
0.2433	11.968	0.2433	0
0.2466	11.968	0.2466	0
0.25	11.977	0.25	0.009
0.2533	11.968	0.2533	0
0.2566	11.977	0.2566	0.009
0.26	11.959	0.26	-0.009
0.2633	11.968	0.2633	0
0.2666	11.977	0.2666	0.009

0.27	11.959	0.27	-0.009
0.2733	11.968	0.2733	0
0.2766	11.968	0.2766	0
0.28	11.968	0.28	0
0.2833	11.977	0.2833	0.009
0.2866	11.977	0.2866	0.009
0.29	11.968	0.29	0
0.2933	11.968	0.2933	0
0.2966	11.977	0.2966	0.009
0.3	11.977	0.3	0.009
0.3033	11.968	0.3033	0
0.3066	11.977	0.3066	0.009
0.31	11.968	0.31	0
0.3133	11.977	0.3133	0.009
0.3166	11.968	0.3166	0
0.32	11.977	0.32	0.009
0.3233	11.977	0.3233	0.009
0.3266	11.977	0.3266	0.009
0.33	11.977	0.33	0.009
0.3333	11.968	0.3333	0
0.35	11.977	0.35	0.009
0.3666	11.968	0.3666	0
0.3833	11.977	0.3833	0.009
0.4	11.968	0.4	0
0.4166	11.968	0.4166	0
0.4333	11.977	0.4333	0.009
0.45	11.977	0.45	0.009
0.4666	11.977	0.4666	0.009
0.4833	11.977	0.4833	0.009
0.5	11.968	0.5	0
0.5166	11.968	0.5166	0
0.5333	11.968	0.5333	0
0.55	11.977	0.55	0.009
0.5666	11.959	0.5666	-0.009
0.5833	11.968	0.5833	0
0.6	11.959	0.6	-0.009
0.6166	11.977	0.6166	0.009
0.6333	11.968	0.6333	0
0.65	11.977	0.65	0.009
0.6666	11.968	0.6666	0
0.6833	11.968	0.6833	0
0.7	11.959	0.7	-0.009
0.7166	11.968	0.7166	0
0.7333	11.968	0.7333	0
0.75	11.968	0.75	0
0.7666	11.968	0.7666	0
0.7833	11.968	0.7833	0
0.8	11.968	0.8	0
0.8166	11.968	0.8166	0
0.8333	11.959	0.8333	-0.009
0.85	11.959	0.85	-0.009
0.8666	11.968	0.8666	0

0.8833	11.968	0.8833	0
0.9	11.968	0.9	0
0.9166	11.968	0.9166	0
0.9333	11.959	0.9333	-0.009
0.95	11.959	0.95	-0.009
0.9666	11.959	0.9666	-0.009
0.9833	11.959	0.9833	-0.009
1	11.977	1	0.009
1.2	11.968	1.2	0
1.4	11.959	1.4	-0.009
1.6	11.959	1.6	-0.009
1.8	11.959	1.8	-0.009

CH2M HILL SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Radius of casing, r_c (in)	<input type="text" value="100"/>
Radius to undisturbed aquifer, rw (in)	<input type="text" value="500"/>
Length of well submergence, L_w (ft)	<input type="text" value="540"/>
Length of submerged screen, Le (ft)	<input type="text" value="1000"/>
$(f/L_w) \leq Le / L_w = L_w$	<input type="text" value="540"/>
Height of water in aquifer, H (ft)	<input type="text" value="0.30"/>
Initial (max) water level drawdown from static, $y(0)$ (ft) - y-intercept	<input type="text" value="0.20"/>
// $Lw < Le$, porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, rc	
Porosity of sandpack, η (fraction)	
(if porosity unknown, type "ND")	
Adjusted radius of casing, r'_c	
$r'_c = ((1-\eta)c^2 + \eta(rw^2))^{1/2}$	
$r'_c (ft) =$	

$LW \Rightarrow$ i.e., porosity, η , of the gravel/sandpack must be accounted for in the radius of the casing, r_C

Porosity of sandpack, n (fraction)

(if porosity unknown, type "ND")

Adjusted radius of casing, r'_C

$$r'_C = \frac{[(1-\eta)r_C^2 + \eta(LW^2)]^{1/2}}{\eta}$$

$$r_C(\%) =$$

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as

$$K = \left(c^2 \cdot \ln(R/r_w) \right) / (2\pi) \left(h \cdot \ln(y_0/y_f) \right)$$
where,
 $t = \text{time (min)}$

The value of $\ln(B_e/B_w)$ depends on the orientation of the well into the aquifer

If the well is partially penetrating ($L_w < H$)
 $\ln(Re/w) = (1 / \ln(Lw/w)) + (A + B \ln((H - Lw) / rw) / (\ln(e / rw)))^{0.1}$

where A and B are obtained from data curves

/ NW = 24

penetrating

$$a[(Lw/rw) + C / (Le / rw)]^{1/2}$$

 where C is obtained from a date curve

Le / $n_w \approx 24$

卷之三

From the semi- β -eq drawn with two vs time of fit

Y-largegt; Y(0) {jeet} =

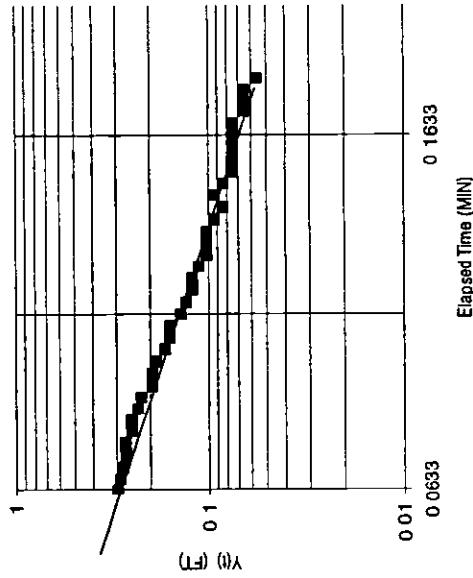
Y-value-Y{at time t} =

Time, t (min) =

卷之三

$$K = 3.86E+01 \text{ l/day}$$

If the maximum (initial) drawdown is below the level of the wall screen, $y(0) > L_W - L_B$, a double straight-line effect may be noted in the water level response curve Double straight-line may occur



SE100 OC
 Environmental Logger
 01/26 1 0:23

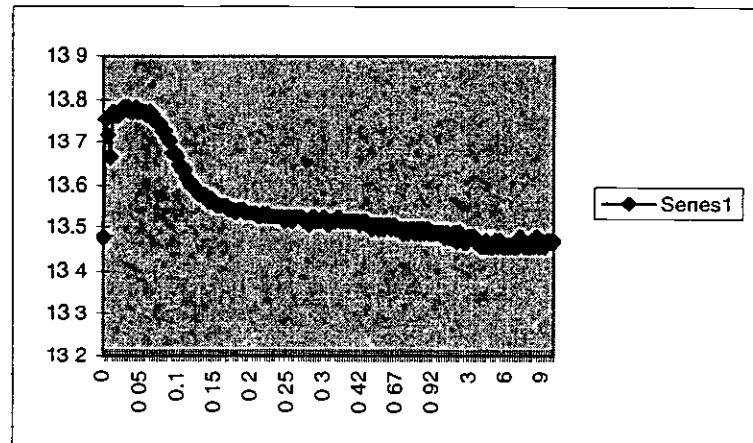
Unit# 0001 Test 8

Setups: INPUT 1

Type	Level (F)
Mode	TOC
I.D.	923
Reference	13.45
Linearity	0.32
Scale factc	29.34
Offset	0.01
Delay mSE	50

Step 1 01/ 13:15:47

Elapsed T# INPUT 1



0	13.477	0	0
0.0033	13.756	0.0033	0.279
0.0066	13.718	0.0066	0.241
0.01	13.663	0.01	0.186
0.0133	13.774	0.0133	0.297
0.0166	13.765	0.0166	0.288
0.02	13.765	0.02	0.288
0.0233	13.774	0.0233	0.297
0.0266	13.783	0.0266	0.306
0.03	13.783	0.03	0.306
0.0333	13.783	0.0333	0.306
0.0366	13.774	0.0366	0.297
0.04	13.774	0.04	0.297
0.0433	13.783	0.0433	0.306
0.0466	13.774	0.0466	0.297
0.05	13.774	0.05	0.297
0.0533	13.774	0.0533	0.297
0.0566	13.774	0.0566	0.297
0.06	13.765	0.06	0.288
0.0633	13.774	0.0633	0.297
0.0666	13.765	0.0666	0.288
0.07	13.756	0.07	0.279
0.0733	13.746	0.0733	0.269
0.0766	13.746	0.0766	0.269
0.08	13.728	0.08	0.251
0.0833	13.728	0.0833	0.251
0.0866	13.709	0.0866	0.232
0.09	13.7	0.09	0.223
0.0933	13.672	0.0933	0.195

0.0966	13.672	0.0966	0.195
0.1	13.663	0.1	0.186
0.1033	13.644	0.1033	0.167
0.1066	13.635	0.1066	0.158
0.11	13.635	0.11	0.158
0.1133	13.616	0.1133	0.139
0.1166	13.607	0.1166	0.13
0.12	13.598	0.12	0.121
0.1233	13.598	0.1233	0.121
0.1266	13.589	0.1266	0.112
0.13	13.579	0.13	0.102
0.1333	13.579	0.1333	0.102
0.1366	13.579	0.1366	0.102
0.14	13.57	0.14	0.093
0.1433	13.561	0.1433	0.084
0.1466	13.57	0.1466	0.093
0.15	13.561	0.15	0.084
0.1533	13.552	0.1533	0.075
0.1566	13.552	0.1566	0.075
0.16	13.552	0.16	0.075
0.1633	13.552	0.1633	0.075
0.1666	13.552	0.1666	0.075
0.17	13.542	0.17	0.065
0.1733	13.542	0.1733	0.065
0.1766	13.542	0.1766	0.065
0.18	13.533	0.18	0.056
0.1833	13.542	0.1833	0.065
0.1866	13.542	0.1866	0.065
0.19	13.542	0.19	0.065
0.1933	13.533	0.1933	0.056
0.1966	13.533	0.1966	0.056
0.2	13.533	0.2	0.056
0.2033	13.533	0.2033	0.056
0.2066	13.533	0.2066	0.056
0.21	13.524	0.21	0.047
0.2133	13.524	0.2133	0.047
0.2166	13.533	0.2166	0.056
0.22	13.524	0.22	0.047
0.2233	13.533	0.2233	0.056
0.2266	13.524	0.2266	0.047
0.23	13.524	0.23	0.047
0.2333	13.524	0.2333	0.047
0.2366	13.524	0.2366	0.047
0.24	13.524	0.24	0.047
0.2433	13.524	0.2433	0.047
0.2466	13.514	0.2466	0.037
0.25	13.524	0.25	0.047
0.2533	13.524	0.2533	0.047
0.2566	13.514	0.2566	0.037
0.26	13.524	0.26	0.047
0.2633	13.524	0.2633	0.047
0.2666	13.524	0.2666	0.047

0.27	13.524	0.27	0.047
0.2733	13.514	0.2733	0.037
0.2766	13.514	0.2766	0.037
0.28	13.505	0.28	0.028
0.2833	13.524	0.2833	0.047
0.2866	13.524	0.2866	0.047
0.29	13.514	0.29	0.037
0.2933	13.514	0.2933	0.037
0.2966	13.514	0.2966	0.037
0.3	13.524	0.3	0.047
0.3033	13.514	0.3033	0.037
0.3066	13.505	0.3066	0.028
0.31	13.514	0.31	0.037
0.3133	13.514	0.3133	0.037
0.3166	13.514	0.3166	0.037
0.32	13.524	0.32	0.047
0.3233	13.514	0.3233	0.037
0.3266	13.514	0.3266	0.037
0.33	13.514	0.33	0.037
0.3333	13.514	0.3333	0.037
0.35	13.514	0.35	0.037
0.3666	13.514	0.3666	0.037
0.3833	13.514	0.3833	0.037
0.4	13.514	0.4	0.037
0.4166	13.505	0.4166	0.028
0.4333	13.514	0.4333	0.037
0.45	13.514	0.45	0.037
0.4666	13.505	0.4666	0.028
0.4833	13.505	0.4833	0.028
0.5	13.496	0.5	0.019
0.5166	13.505	0.5166	0.028
0.5333	13.505	0.5333	0.028
0.55	13.496	0.55	0.019
0.5666	13.505	0.5666	0.028
0.5833	13.496	0.5833	0.019
0.6	13.505	0.6	0.028
0.6166	13.505	0.6166	0.028
0.6333	13.496	0.6333	0.019
0.65	13.505	0.65	0.028
0.6666	13.496	0.6666	0.019
0.6833	13.496	0.6833	0.019
0.7	13.496	0.7	0.019
0.7166	13.487	0.7166	0.01
0.7333	13.496	0.7333	0.019
0.75	13.487	0.75	0.01
0.7666	13.496	0.7666	0.019
0.7833	13.496	0.7833	0.019
0.8	13.487	0.8	0.01
0.8166	13.496	0.8166	0.019
0.8333	13.487	0.8333	0.01
0.85	13.496	0.85	0.019
0.8666	13.487	0.8666	0.01

0.8833	13.496	0.8833	0.019
0.9	13.487	0.9	0.01
0.9166	13.487	0.9166	0.01
0.9333	13.487	0.9333	0.01
0.95	13.487	0.95	0.01
0.9666	13.487	0.9666	0.01
0.9833	13.487	0.9833	0.01
1	13.477	1	0
1.2	13.487	1.2	0.01
1.4	13.477	1.4	0
1.6	13.477	1.6	0
1.8	13.487	1.8	0.01
2	13.468	2	-0.009
2.2	13.487	2.2	0.01
2.4	13.477	2.4	0
2.6	13.468	2.6	-0.009
2.8	13.468	2.8	-0.009
3	13.477	3	0
3.2	13.477	3.2	0
3.4	13.477	3.4	0
3.6	13.468	3.6	-0.009
3.8	13.468	3.8	-0.009
4	13.459	4	-0.018
4.2	13.459	4.2	-0.018
4.4	13.468		-0.009
4.6	13.459		-0.018
4.8	13.459		-0.018
5	13.459		-0.018
5.2	13.468		-0.009
5.4	13.459		-0.018
5.6	13.468		-0.009
5.8	13.459		-0.018
6	13.459		-0.018
6.2	13.459		-0.018
6.4	13.459		-0.018
6.6	13.459		-0.018
6.8	13.459		-0.018
7	13.459		-0.018
7.2	13.477		0
7.4	13.468		-0.009
7.6	13.459		-0.018
7.8	13.459		-0.018
8	13.459		-0.018
8.2	13.468		-0.009
8.4	13.459		-0.018
8.6	13.477		0
8.8	13.459		-0.018
9	13.468		-0.009
9.2	13.459		-0.018
9.4	13.468		-0.009
9.6	13.468		-0.009
9.8	13.468		-0.009

652 280

Mw-12aou RAW DATA

10 13.468 -0.009

CHAM HILL
SLUG TEST ANALYSIS FOR DETERMINATION OF HORIZONTAL HYDRAULIC CONDUCTIVITY, K - BOUWER & RICE METHOD

Well ID:

USGS04T

Value

Radius of casing, r_c (in.)	<input type="text" value="1.00"/>
Radius to undisturbed aquifer, rw (in.)	<input type="text" value="5.00"/>
Length of well submergence, Lw (ft)	<input type="text" value="4.74"/>
Length of submerged screen, Le (ft)	<input type="text" value="10.00"/>
(if $Lw = Le$, let $Le = Lw$)	
Height of water in aquifer, H (ft)	<input type="text" value="4.74"/>
Initial (max) water level drawdown (from static, $y(0)$) (ft) (y-intercept)	<input type="text" value="0.54"/>

If $Lw \ll Le$, porosity, n , of the gravel/sandpack must be accounted to in the radius of the casing, r_c

Porosity of sandpack, n (fraction)

(if porosity unknown, type "ND")

Adjusted radius of casing, r_c

$r_c' = [(1-n)r_c^2 + n(rw^2)]^{1/2}$

$r_c'(ft) =$

From the Thiem equation, horizontal hydraulic conductivity, K can be calculated as,

$$K = [r_c'^2 \ln(Re/rw) / 2Lw] (M) (\ln(y(0)/y(t)))$$

where
I = time (min)

y = drawdown from static water level

Re = effective radial distance over which y (drawdown) is dissipated

The value of $\ln(Re/rw)$ depends on the penetration of the well into the aquifer

If the well is partially penetrating ($Lw < H$)

$$\ln(Re/rw) = (1 / \ln(Lw/rw)) + (A + B \ln(H - Lw) / (rw / (Le / rw)))^{-1}$$

where A and B are obtained from data curves

$$Le / rw = 24$$

$$Le / rw = 24$$

====> If the well is fully penetrating

$$\ln(Re/rw) = (1 / \ln(Lw/rw)) + C / (Le / rw)^{1/2}$$

where C is obtained from a data curve

$$Le / rw = 24$$

$$Le / rw = 24$$

Since the well is fully penetrating

$$\ln(Re/rw) = 1.90$$

From the semi-log drawdown vs time plot

Y-intercept, $y(0)$ (feet) =

Y-value, $y(t)$, at 1 time, t , (feet) =

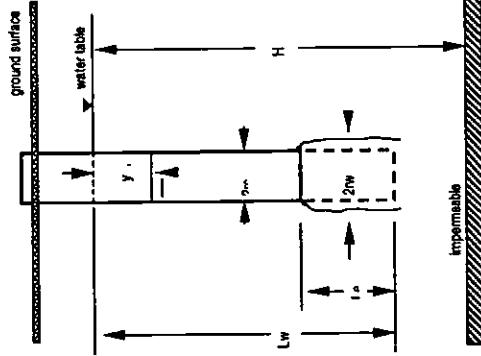
Time, t (min) =

Solving for horizontal hydraulic conductivity, K ,

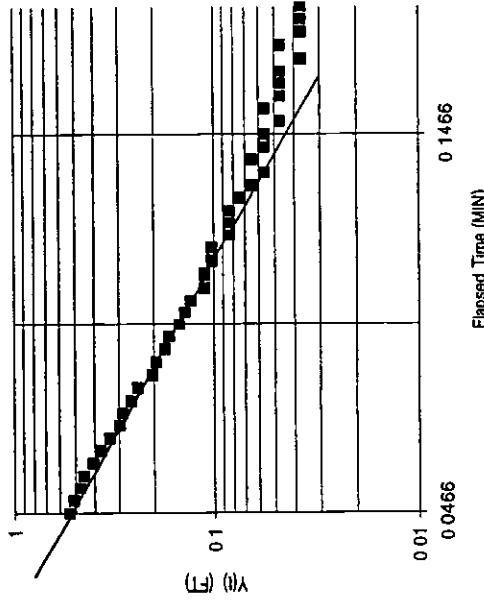
$$K = 7.34E-01 \text{ ft/day}$$

$$K = 2.59E-02 \text{ cm/s}$$

If the maximum (initial) drawdown is below the level of the well screen, $y(0) > Lw$. Let a double straight-line effect may be noted in the water level response curve.



USGS04T



File Usgs04t.xls

652 282

Usgs4dou RAW DATA

SE100 OC
Environmental Logger
01/26 1 1:19

Unit# 0001 Test 14

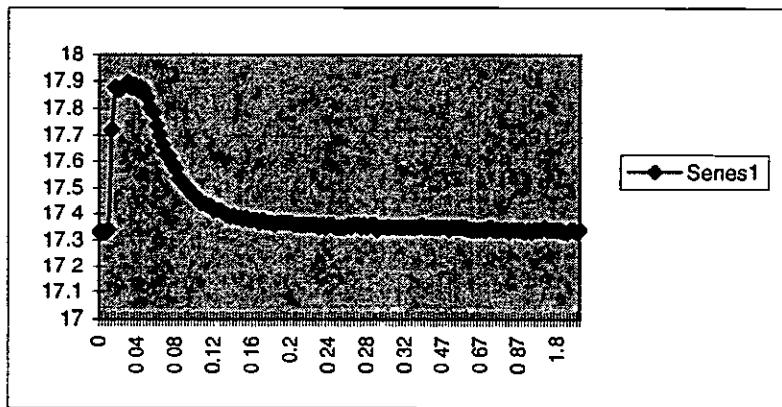
Setups: INPUT 1

Type Level (F)
Mode TOC
I.D. 923

Reference 17.48
Linearity 0.32
Scale factc 29.34
Offset 0.01
Delay mSE 50

Step 0 01/ 16:47.07

Elapsed Ti INPUT 1



0	17.331	0	0
0.0033	17.331	0.0033	0
0.0066	17.331	0.0066	0
0.01	17.34	0.01	0.009
0.0133	17.721	0.0133	0.39
0.0166	17.878	0.0166	0.547
0.02	17.869	0.02	0.538
0.0233	17.878	0.0233	0.547
0.0266	17.887	0.0266	0.556
0.03	17.897	0.03	0.566
0.0333	17.878	0.0333	0.547
0.0366	17.887	0.0366	0.556
0.04	17.869	0.04	0.538
0.0433	17.878	0.0433	0.547
0.0466	17.869	0.0466	0.538
0.05	17.841	0.05	0.51
0.0533	17.804	0.0533	0.473
0.0566	17.785	0.0566	0.454
0.06	17.739	0.06	0.408
0.0633	17.702	0.0633	0.371
0.0666	17.665	0.0666	0.334
0.07	17.628	0.07	0.297
0.0733	17.619	0.0733	0.288
0.0766	17.591	0.0766	0.26
0.08	17.572	0.08	0.241
0.0833	17.535	0.0833	0.204
0.0866	17.526	0.0866	0.195
0.09	17.507	0.09	0.176
0.0933	17.498	0.0933	0.167

0.0966	17.48	0.0966	0.149
0.1	17.47	0.1	0.139
0.1033	17.461	0.1033	0.13
0.1066	17.442	0.1066	0.111
0.11	17.442	0.11	0.111
0.1133	17.433	0.1133	0.102
0.1166	17.433	0.1166	0.102
0.12	17.415	0.12	0.084
0.1233	17.415	0.1233	0.084
0.1266	17.415	0.1266	0.084
0.13	17.405	0.13	0.074
0.1333	17.396	0.1333	0.065
0.1366	17.387	0.1366	0.056
0.14	17.396	0.14	0.065
0.1433	17.387	0.1433	0.056
0.1466	17.387	0.1466	0.056
0.15	17.378	0.15	0.047
0.1533	17.387	0.1533	0.056
0.1566	17.378	0.1566	0.047
0.16	17.378	0.16	0.047
0.1633	17.378	0.1633	0.047
0.1666	17.368	0.1666	0.037
0.17	17.378	0.17	0.047
0.1733	17.368	0.1733	0.037
0.1766	17.368	0.1766	0.037
0.18	17.368	0.18	0.037
0.1833	17.359	0.1833	0.028
0.1866	17.368	0.1866	0.037
0.19	17.368	0.19	0.037
0.1933	17.368	0.1933	0.037
0.1966	17.368	0.1966	0.037
0.2	17.368	0.2	0.037
0.2033	17.359	0.2033	0.028
0.2066	17.359	0.2066	0.028
0.21	17.359	0.21	0.028
0.2133	17.359	0.2133	0.028
0.2166	17.359	0.2166	0.028
0.22	17.359	0.22	0.028
0.2233	17.359	0.2233	0.028
0.2266	17.359	0.2266	0.028
0.23	17.35	0.23	0.019
0.2333	17.359	0.2333	0.028
0.2366	17.35	0.2366	0.019
0.24	17.359	0.24	0.028
0.2433	17.359	0.2433	0.028
0.2466	17.35	0.2466	0.019
0.25	17.35	0.25	0.019
0.2533	17.35	0.2533	0.019
0.2566	17.35	0.2566	0.019
0.26	17.359	0.26	0.028
0.2633	17.35	0.2633	0.019
0.2666	17.359	0.2666	0.028

0.27	17.359	0.27	0.028
0.2733	17.35	0.2733	0.019
0.2766	17.359	0.2766	0.028
0.28	17.35	0.28	0.019
0.2833	17.359	0.2833	0.028
0.2866	17.359	0.2866	0.028
0.29	17.34	0.29	0.009
0.2933	17.35	0.2933	0.019
0.2966	17.35	0.2966	0.019
0.3	17.35	0.3	0.019
0.3033	17.35	0.3033	0.019
0.3066	17.35	0.3066	0.019
0.31	17.35	0.31	0.019
0.3133	17.35	0.3133	0.019
0.3166	17.35	0.3166	0.019
0.32	17.35	0.32	0.019
0.3233	17.35	0.3233	0.019
0.3266	17.35	0.3266	0.019
0.33	17.35	0.33	0.019
0.3333	17.35	0.3333	0.019
0.35	17.359	0.35	0.028
0.3666	17.35	0.3666	0.019
0.3833	17.35	0.3833	0.019
0.4	17.35	0.4	0.019
0.4166	17.35	0.4166	0.019
0.4333	17.35	0.4333	0.019
0.45	17.35	0.45	0.019
0.4666	17.35	0.4666	0.019
0.4833	17.35	0.4833	0.019
0.5	17.34	0.5	0.009
0.5166	17.35	0.5166	0.019
0.5333	17.35	0.5333	0.019
0.55	17.35	0.55	0.019
0.5666	17.35	0.5666	0.019
0.5833	17.35	0.5833	0.019
0.6	17.34	0.6	0.009
0.6166	17.34	0.6166	0.009
0.6333	17.34	0.6333	0.009
0.65	17.34	0.65	0.009
0.6666	17.34	0.6666	0.009
0.6833	17.34	0.6833	0.009
0.7	17.34	0.7	0.009
0.7166	17.35	0.7166	0.019
0.7333	17.34	0.7333	0.009
0.75	17.34	0.75	0.009
0.7666	17.34	0.7666	0.009
0.7833	17.34	0.7833	0.009
0.8	17.34	0.8	0.009
0.8166	17.331	0.8166	0
0.8333	17.34	0.8333	0.009
0.85	17.34	0.85	0.009
0.8666	17.34	0.8666	0.009

0.8833	17.34	0.8833	0.009
0.9	17.331	0.9	0
0.9166	17.34	0.9166	0.009
0.9333	17.331	0.9333	0
0.95	17.34	0.95	0.009
0.9666	17.34	0.9666	0.009
0.9833	17.34	0.9833	0.009
1	17.35	1	0.019
1.2	17.34	1.2	0.009
1.4	17.34	1.4	0.009
1.6	17.34	1.6	0.009
1.8	17.34	1.8	0.009
2	17.34	2	0.009
2.2	17.331	2.2	0
2.4	17.331	2.4	0
2.6	17.34	2.6	0.009
2.8	17.34	2.8	0.009
3	17.331	3	0
3.2	17.34	3.2	0.009

TAB

APPENDIX E FIELD SAMPLING FORMS

652 287

TAB

DECEMBER 1997

652-288₀

Figure 1: Well Sampling Field Data Sheet

Well Number: CMI-22-02m	Site: NAS FW JR3
Well Crew: M. Wilson, C. Fitzgerald	Date: 12/16/97
Well Depth (ft.):	Initial D.O. Profile:
DTW (ft.)	D.O. (mg/l)
Depth of screen (ft.):	Depth to water (ft.)
Well Diameter (in.)	
Placement of Pump (ft.)	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. ($\mu\text{mhos/cm}$) MS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
Initial	9.50									
0905	9.75	-	-	6.40	18.3	.390	101.5	6.33	<10	Clear
0910	9.63	0.1	0.5	6.97	19.4	.358	176.6	2.11	<10	"
0915	9.55	0.9	0.9	7.02	19.7	.355	140.1	2.25	<10	"
0920	9.58	0.13	1.5	7.04	20.1	.354	140.6	1.83	<10	"
0925	9.59	0.1	2.0	7.04	20.4	.353	137.7	2.21	<10	"
0930	9.55	0.1	2.5	7.04	20.8	.354	137.5	2.26	<10	"
0935	9.58		2.8	7.05	20.8	.355	140.8	2.08	<10	"

Observations

Color: *Clear* **Other (describe):**

Odor: None Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes:

Sample Date/Time: 12/16/97 / 0940

Signed/Sampler: Mark W.

FIELD SAMPLING REPORT

LOCATION: <u>6MT-22-02M</u>	PROJECT: <u>B38681.42.12</u>																																																							
SITE: <u>NAS ADCT</u>																																																								
SAMPLE INFORMATION																																																								
MATRIX <u>Wa</u>	SAMPLE ID: <u>AH4068</u>																																																							
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																																							
BEGINNING DEPTH <u>27'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (Y)																																																							
END DEPTH <u>27'</u>																																																								
GRAB (Y) COMPOSITE ()	DATE: <u>12/16/97</u> TIME: <u>0940</u>																																																							
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NOTABLE OBSERVATIONS																																																								
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																																						
1st <u>9</u>	COLOR: <u>Clear</u>																																																							
2nd <u>9</u>	ODOR: <u>No</u>																																																							
	OTHER:																																																							
GENERAL INFORMATION																																																								
WEATHER: SUN/CLEAR <u>Y</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>60°</u>																																																					
SHIPMENT VIA: FED-X <u>Y</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																																					
SHIPPED TO: <u>Person</u>																																																								
COMMENTS: _____																																																								
SAMPLER: <u>M. W.</u>	OBSERVER: <u>C. Fitzgerald</u>																																																							
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																						
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB																																																					
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER																																																					
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER																																																					
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH																																																					
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON																																																					
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP																																																					

Figure 1: Well Sampling Field Data Sheet

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Well Number: GMI-22-03M		Site: NAS Acc 2									
Crew: M.Wilson, C.Fitzgerald		Date: 12/18/97									
Well Depth (ft.): <u>32.5'</u>		Initial D.O. Profile:									
DTW (ft.) <u>20.60'</u>		D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):											
Well Diameter (in.) <u>2"</u>											
Placement of Pump (ft.) <u>23.0'</u>											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0810	20.61	—	—	7.07	18.8	1,10	209.0	0.95	521	cloudy	
0815	20.61		0.2	7.35	19.7	1.07	205.4	0.79	495	"	
0820	20.61		0.5	7.38	20.0	1.08	204.0	0.74	422	clearing	
0825	20.61		0.9	7.38	23.4	1.07	202.2	0.70	336	"	
0830	20.61		1.1	7.40	27.9	1.08	193.4	0.70	298	"	
0835	20.61		1.4	7.38	24.1	1.08	189.6	0.69	184	"	
0840	20.61		1.8	7.39	24.5	1.09	181.0	0.62	172	"	
0845	20.61		2.1	7.38	24.5	1.09	174.3	0.63	119	"	
0850	20.61		2.34	7.38	24.7	1.08	164.7	0.57	74	clear	
0855	20.61		2.7	7.38	25.0	1.08	160.9	0.51	62	"	
0900	20.61		2.9	7.37	25.2	1.08	155.7	0.52	47	"	
0905	20.61		3.1	7.38	25.2	1.08	153.3	0.50	37	"	
0910	20.61		3.3	7.37	25.3	1.08	149.4	0.47	31	"	
0915	20.61		3.5	7.37	25.4	1.08	149.1	0.46	31	"	
											
Observations											
Color: <input checked="" type="checkbox"/> Clear	Other (describe):										
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters:											
Notes: 0 ppm											
Sample Date/Time: 12/18/97 / 0925											
Signed/Sampler: M.Wilson											

652 291

FIELD SAMPLING REPORT

LOCATION: CMI-22-03mPROJECT: 138681 AZ.12SITE: NAS AOC 2

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA082SAMPLING METHOD SPDUP./REP. OF: —BEGINNING DEPTH 23MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NOEND DEPTH 23

GRAB (Y) COMPOSITE ()

DATE: 12/10/97 TIME: 0925

CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
#				

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>8</u>	COLOR: <u>Clear</u>	
2nd <u>8</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR Y OVERCAST/RAIN — WIND DIRECTION — AMBIENT TEMP 60°SHIPMENT VIA. FED-X Y HAND DELIVER — COURIER — OTHER —SHIPPED TO: ParagonCOMMENTS: —SAMPLER: M. MillerOBSERVER: C. Fitzgerald / R. Belau

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

16523.292

Figure 1: Well Sampling Field Data Sheet

Well Number: GMI-22-04-M		Site: NAS Fort Worth JRB								
Field Crew: M. Phillips, K. Swanson		Date: 12/18/97								
Well Depth (ft.):		Initial D.O. Profile:								
DTW (ft.)	19.65	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.)	2"									
Placement of Pump (ft.)	21									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0805	19.65									
0810	19.92		1.5	6.74	23.2	1.09	211.0	0.38	13	clear
0815	19.84		2.1	6.78	24.2	1.09	204.6	0.42	9	clear
0820	19.84		2.7	6.78	25.0	1.08	200.8	0.34	6	clear
0825	19.84		3.4	6.78	25.9	1.10	197.0	0.34	9	clear
0830	19.84		4.0	6.79	26.1	1.11	189.3	0.22	15	clear
0835	19.86		4.8	6.78	26.6	1.11	181.7	0.22	15	clear
0840	19.84		5.4	6.77	26.0	1.11	178.0	0.19	13	clear
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: VOCs										
Notes: OVM = 0.0 ppm										
Sample Date/Time: 12/18/97 / 0840										
Signed/Sampler: K. Swanson / M. Phillips										

FIELD SAMPLING REPORT

LOCATION: <u>GMU-12-04 M</u>	PROJECT: <u>AICZ RFI</u>																																																						
SITE: <u>NAS Fort Worth JRB</u>																																																							
SAMPLE INFORMATION																																																							
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA083</u>																																																						
SAMPLING METHOD <u>Low-flow/SP</u>	DUP./REP. OF: <u>-</u>																																																						
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																																						
END DEPTH _____																																																							
GRAB () COMPOSITE ()	DATE: <u>12/18/97</u> TIME: <u>0840</u>																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <td colspan="4"></td> </tr> </thead> <tbody> <tr><td>VDC1</td><td>3</td><td colspan="4">8260</td></tr> <tr><td></td><td></td><td colspan="4"></td></tr> <tr><td></td><td></td><td colspan="4"></td></tr> <tr><td></td><td></td><td colspan="4"></td></tr> <tr><td></td><td></td><td colspan="4"></td></tr> <tr><td></td><td></td><td colspan="4"></td></tr> <tr><td></td><td></td><td colspan="4"></td></tr> </tbody> </table>		CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#					VDC1	3	8260																																							
CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																																		
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VDC1	3	8260																																																					
NOTABLE OBSERVATIONS																																																							
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																																					
1st <u>0.0 ppm</u>	COLOR: <u>clear</u>																																																						
2nd <u>0.0 ppm</u>	ODOR <u>none</u>																																																						
	OTHER:																																																						
GENERAL INFORMATION																																																							
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																																				
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____	OTHER _____																																																				
SHIPPED TO: <u>Paragon Analytical</u>																																																							
COMMENTS: _____																																																							
SAMPLER: <u>M. Phillips</u>	OBSERVER: <u>K. Swanson</u>																																																						
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																					
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																																				

Figure 1: Well Sampling Field Data Sheet

11652-291

Well Number: GMI-22-05M	Site: NTS 40C7										
Crew: M. Wilson, J. Johnson	Date: 12/23/97										
Well Depth (ft.): 13.82	Initial D.O. Profile:										
DTW (ft.) 10.56	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.):											
Well Diameter (in.) 2"											
Placement of Pump (ft.) bottom											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0835	10.67	—	—	6.74	18.5	.597	18.6	2.97	1000	Cloudy	
0840	10.65	—	.3	7.10	18.0	.621	122.9	3.21	"	"	
0845	10.65	—	.7	6.87	18.3	.655	130.6	3.23	99	Cloudy	
0850	10.70	—	1.2	7.06	18.3	.662	127.4	2.47	9	Cloudy	
0855	10.71	—	1.7	7.05	18.6	.665	123.1	2.45	11	"	
0900	10.74	—	1.9	7.07	19.0	.666	121.7	2.51	14	"	
0905	10.81	—	2.4	7.08	19.4	.669	124.3	2.40	17	"	
Observations											
Color: <input checked="" type="radio"/> Clear	Other (describe):										
Odor: <input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters:											
Notes: 9 ppm											
Sample Date/Time: 12/23/97 / 0905											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: <u>GMI 22-05</u>	PROJECT: _____																																																	
SITE: <u>NAS AOCZ</u>																																																		
SAMPLE INFORMATION																																																		
MATRIX <u>WG</u>	SAMPLE ID: <u>AH4059</u>																																																	
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																																	
BEGINNING DEPTH <u>bottom</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (x)																																																	
END DEPTH _____																																																		
GRAB (Y) COMPOSITE ()	DATE: <u>12/23/97</u> TIME: <u>0905</u>																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CONTAINER</th> <th style="text-align: left; padding: 2px;">PRESERVATIVE/</th> <th style="text-align: left; padding: 2px;">EXTRACTION</th> <th style="text-align: left; padding: 2px;">ANALYTICAL</th> <th rowspan="2" style="text-align: center; vertical-align: middle; padding: 2px;">ANALYSIS</th> </tr> <tr> <th style="text-align: left; padding: 2px;">SIZE/TYPE</th> <th style="text-align: left; padding: 2px;">PREPARATION</th> <th style="text-align: left; padding: 2px;">METHOD</th> <th style="text-align: left; padding: 2px;">METHOD</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/	EXTRACTION	ANALYTICAL	ANALYSIS	SIZE/TYPE	PREPARATION	METHOD	METHOD																																								
CONTAINER	PRESERVATIVE/	EXTRACTION	ANALYTICAL	ANALYSIS																																														
SIZE/TYPE	PREPARATION	METHOD	METHOD																																															
NOTABLE OBSERVATIONS																																																		
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																																
1st <u>8</u>	COLOR: <u>clear</u>																																																	
2nd <u>8</u>	ODOR: <u>None</u>																																																	
	OTHER: _____																																																	
GENERAL INFORMATION																																																		
WEATHER: SUN/CLEAR	OVERCAST/RAIN <u>OX</u>	WIND DIRECTION <u>N</u>	AMBIENT TEMP <u>45°</u>																																															
SHIPMENT VIA: FED-X <u>Y</u>	HAND DELIVER	COURIER	OTHER																																															
SHIPPED TO: <u>Paxton</u>																																																		
COMMENTS: _____																																																		
SAMPLER: <u>M. W.</u>	OBSERVER: _____																																																	
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB																																															
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER																																															
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER																																															
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH																																															
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON																																															
			SP=SUBMERSIBLE PUMP																																															

Figure 1: Well Sampling Field Data Sheet

1652 296

Well Number: <u>GMT-22-06W</u>	Site: <u>NHS AOC</u>	
Crew: <u>M. Wilson, C. Fitzgerald</u>	Date: <u>12/18/97</u>	
Well Depth (ft.): <u>24.0'</u>	Initial D.O. Profile:	
DTW (ft.) <u>18.37'</u>	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.): <u>13.5'-23.5'</u>		
Well Diameter (in.) <u>2"</u>		
Placement of Pump (ft.) <u>22.0'</u>		

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1020	18.40	-	-	7.51	21.3	1,20	180.7	1.00	589	Cloudy
1025	18.40		0.3	7.48	22.0	1,21	182.7	0.62	513	"
1030	18.40		0.7	7.50	22.8	1,20	177.6	0.59	416	"
1035	18.40		1.0	7.52	23.6	1,20	173.5	0.55	343	Clearer
1040	18.40		1.4	7.51	24.1	1,20	93.4	0.58	261	"
1045	18.40		1.8	7.52	24.4	1,20	115.5	0.55	203	"
1050	18.40		2.1	7.52	24.6	1,20	129.0	0.51	144	"
1055	18.40		2.4	7.52	24.8	1,20	135.7	0.49	114	"
1100	18.40		2.8	7.52	24.9	1,20	138.5	0.48	90	"
1105	18.40		2.9	7.52	24.9	1,20	139.6	0.46	71	"
1110	18.40		3.1	7.52	25.1	1,20	143.2	0.45	63	Clear
1115	18.40		3.4	7.52	25.3	1,20	145.2	0.43	52	"
1120	18.39		3.6	7.53	25.3	1,20	145.0	0.41	46	"
1125	18.40		3.8	7.53	25.5	1,20	149.4	0.43	38	"
1130	18.40		4.0	7.52	25.7	1,20	150.3	0.40	32	"
1135	18.40		4.2	7.53	25.7	1,20	149.7	0.39	32	"

Observations

Color: Clear Other (describe):

Odor: None Low Medium High Very Strong H₂S Fuel-Like

Sample Parameters:

Notes: 1,3 ppm

Sample Date/Time: 12/18/97

Signed/Sampler: J. R. W.

FIELD SAMPLING REPORT

LOCATION: <u>CMI-22-06M</u>	PROJECT: <u>138681A2.12</u>																																																		
SITE: <u>NAS AOC?</u>																																																			
SAMPLE INFORMATION																																																			
MATRIX <u>WG</u>	SAMPLE ID: <u>AH4084</u>																																																		
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u> </u>																																																		
BEGINNING DEPTH <u>22'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>no</u>																																																		
END DEPTH <u>22'</u>																																																			
GRAB (<u>Y</u>) COMPOSITE ()	DATE: <u>12/18/97</u> TIME: <u>1140</u>																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CONTAINER</th> <th style="text-align: left; padding: 2px;">PRESERVATIVE/ PREPARATION</th> <th style="text-align: left; padding: 2px;">EXTRACTION METHOD</th> <th style="text-align: left; padding: 2px;">ANALYTICAL METHOD</th> <th style="text-align: left; padding: 2px;">ANALYSIS</th> </tr> <tr> <th style="text-align: left; padding: 2px;">SIZE/TYPE</th> <th style="text-align: left; padding: 2px;">#</th> <th style="text-align: left; padding: 2px;"></th> <th style="text-align: left; padding: 2px;"></th> <th style="text-align: left; padding: 2px;"></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#																																											
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																															
SIZE/TYPE	#																																																		
NOTABLE OBSERVATIONS																																																			
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																																	
1st <u>0</u>	COLOR: <u>Clear</u>																																																		
2nd <u>0</u>	ODOR <u>No</u>																																																		
	OTHER:																																																		
GENERAL INFORMATION																																																			
WEATHER. SUN/CLEAR <u>X</u>	OVERCAST/RAIN	WIND DIRECTION	AMBIENT TEMP <u>60°</u>																																																
SHIPMENT VIA: FED-X <u>Y</u>	HAND DELIVER	COURIER	OTHER																																																
SHIPPED TO: <u>Paragon</u>																																																			
COMMENTS:																																																			
SAMPLER: <u>Martin</u>	OBSERVER: <u>C.F. Fitzgerald / R. Belau</u>																																																		
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																	
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																																

O P C - S U D
652 298

Sheet 1

Figure 1: Well Sampling Field Data Sheet

Well Number: <u>GMT-22-07M</u>	Site: <u>AOCZ NAS</u>
Well Crew: <u>M. Wilson, C. Fitzgerald</u>	Date: <u>12/16/97</u>
Well Depth (ft.): <u>20.5</u>	Initial D.O. Profile:
DTW (ft.) <u>15.60'</u>	D.O. (mg/l)
Depth of screen (ft.): <u>10 - 20.5'</u>	Depth to water (ft.)
Well Diameter (in.) <u>2"</u>	
Placement of Pump (ft.) <u>17.0'</u>	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1418	16.51	-	-	6.88	24.7	.711	740.25.1	3.70	71000	Cloudy
1423	16.39		0.8	6.81	25.0	.645	130.5	3.16	825	"
1428	16.36		1.1	6.79	25.6	.642	133.2	3.15	701	"
1433	16.28		1.4	6.74	26.3	.642	135.0	2.63	406	clearing
1440	16.31		2.0	6.69	26.7	.621	135.5	2.41	208	"
1444	16.26		2.2	6.68	27.2	.616	130.8	2.37	175	"
1449	16.16		2.4	6.68	27.3	.616	131.8	2.44	204	"
1452	16.18		2.7	6.68	27.2	.617	132.3	2.38	198	Absorbent
1530	16.03		2.8	6.73	25.9	.622	141.7	2.91	189	" "
1535	16.29		3.0	6.68	24.7	.617	135.7	3.09	178	" "
1540	16.15		3.2	6.69	25.9	.625	137.7	3.08	129	" "
1545	16.24		3.4	6.69	27.1	.625	138.2	3.07	104	" "
1550	16.70		3.7	6.70	27.6	.572	141.0	2.67	344	cloudy
1555	16.27		4.1	6.71	26.9	.627	144.9	2.75	236	"
1600	16.18		4.3	6.71	26.7	.625	127.4	2.30	212	clearing
1605	16.08		4.5	6.70	26.2	.626	120.3	2.30	184	"
	Well Surged See pg. 7									

Observations

Color: Cloudy Other (describe): SL, cloudyOdor: None Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes: 0 ppmSample Date/Time: 12/16/97 1700Signed/Sampler: M. Wilson

652 299

Figure 1: Well Sampling Field Data Sheet

Sheet

Well Number: GMI-22-0744		Site:								
Field Crew:		Date:								
Well Depth (ft.): _____		Initial D.O. Profile:								
DTW (ft.) _____		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): _____										
Well Diameter (in.) _____										
Placement of Pump (ft.) _____										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1640	17.11		7.5	6.71	23.1	1623	123.3	2.22	331	Very cloudy
1650	16.36		7.8	6.72	25.3	1623	170.3	2.71	373	" "
Observations										
Color:	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> Other (describe): Slightly Cloudy								
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:										
Notes:										
Sample Date/Time: 12/16/97 1700										
Signed/Sampler: M. W.										

FIELD SAMPLING REPORT

652 300

LOCATION: <u>GM1-22-07M</u>	PROJECT: <u>138681.A7</u>																																													
SITE: _____																																														
SAMPLE INFORMATION																																														
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA065</u>																																													
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																													
BEGINNING DEPTH <u>17</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>no</u>																																													
END DEPTH <u>17</u>																																														
GRAB <input checked="" type="checkbox"/> COMPOSITE <input type="checkbox"/>	DATE: <u>12/16/97</u> TIME: <u>1700</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CONTAINER</th> <th style="text-align: left; padding: 2px;">PRESERVATIVE/ PREPARATION</th> <th style="text-align: left; padding: 2px;">EXTRACTION METHOD</th> <th style="text-align: left; padding: 2px;">ANALYTICAL METHOD</th> <th style="text-align: left; padding: 2px;">ANALYSIS</th> </tr> <tr> <th style="text-align: left; padding: 2px;">SIZE/TYPE</th> <th style="text-align: left; padding: 2px;">#</th> <th colspan="3"></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#																																						
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																										
SIZE/TYPE	#																																													
NOTABLE OBSERVATIONS																																														
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																												
1st <u>0</u>	COLOR: <u>sl. cloudy</u>																																													
2nd <u>0</u>	ODOR: <u>none</u>																																													
	OTHER																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/> OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>65°</u>																																												
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/> HAND DELIVER _____	COURIER _____	OTHER _____																																												
SHIPPED TO: <u>Paragon</u>																																														
COMMENTS: <u>Well Sampled following 7.8g/l prge</u>																																														
SAMPLER: <u>M. Wil</u>	OBSERVER: _____																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

652 304

Well Number:	HM-96		Site:	NAS Fort Worth JRB						
Crew:	K. Swanson, M. Phillips		Date:	12/22/97						
Well Depth (ft.):	54		Initial D.O. Profile:							
DTW (ft.)	28.87	32.27	D.O. (mg/l)	Depth to water (ft.)						
Depth of screen (ft.):	24 - 54									
Well Diameter (in.)	4"									
Placement of Pump (ft.)	50									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (µmhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1221	28.87		0.2	6.67	19.5	0.711	156.7	0.97	108	clear
1225	28.87		0.7	6.81	19.3	0.716	100.1	0.08	106	"
1230	28.87		0.9	6.81	19.5	0.730	16.7	1.11	120	"
1235	28.90		1.0	6.81	19.4	0.712	-27.5	1.06	118	"
1240	28.81		1.1	6.81	19.8	0.713	-45.4	0.88	114	"
1245	28.81		1.3	6.82	19.8	0.695	46.8	0.85	101	"
1250	28.86		1.5	6.83	20.2	0.688	-49.5	0.88	103	"
1255	28.84		1.7	6.83	20.2	0.671	-51.2	0.90	102	"
1300	28.85									
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOCs									
Notes:	DVM = 0.0 ppm Natural pump broke off into well while pulling it out of the well ~30' of PVC casing is left in the well, rest outside well									
Sample Date/Time:	12/22/97 / 1304									
Signed/Sampler:	K.E. Swanson / M. Phillips									

FIELD SAMPLING REPORT

LOCATION: <u>HM-196</u>	PROJECT: <u>AOCZ RFI</u>																																								
SITE: <u>NAS Fort Worth JRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>ATA 104</u>																																								
SAMPLING METHOD <u>low-flow/SP</u>	DUP/REP. OF: <u>-</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>12/22/97</u> TIME: <u>1304</u>																																								
<table border="1"> <thead> <tr> <th>CONTAINER SIZE/TYPE</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>VOCs</td><td># 3</td><td></td><td>8260</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	VOCs	# 3		8260																															
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VOCs	# 3		8260																																						
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>0.0 ppm</u>	COLOR: <u>clear</u>																																								
2nd <u>0.0 ppm</u>	ODOR: <u>none</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR X	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																						
SHIPMENT VIA: FED-X X	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Paregor Analytics</u>																																									
COMMENTS _____																																									
SAMPLER: <u>M. Phillips</u>	OBSERVER: <u>N. Swanson</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652 303

Well Number: HM-116		Site: NAS Fort Worth JRB / ADC2 RFI								
Crew: K.Swanson, M.Phillips		Date: 12/19/97								
Well Depth (ft.): 33		Initial D.O. Profile:								
DTW (ft.) 22.47		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.) 23-33										
Well Diameter (in.) 4"										
Placement of Pump (ft.) 30										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (µmhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1305	22.47									
1308	22.60		0.5	6.73	20.8	0.653	130.1	2.13	650	cloudy
1313	22.24		0.9	6.78	21.1	0.654	126.2	1.90	550	"
1325	22.24		1.4	6.78	21.3	0.645	131.0	2.13	485	"
1330	22.20		1.7	6.78	22.3	0.645	133.1	2.50	454	"
1335	22.20		1.9	6.78	22.6	0.647	128.4	2.30	421	"
1340	22.20		2.0	6.76	22.7	0.645	129.0	2.22	398	"
1345	22.19		2.2	6.78	22.9	0.641	127.4	2.21	368	"
1355	22.20		2.6	6.76	23.3	0.632	134.0	2.35	341	"
1405	22.20		2.9	6.78	23.8	0.622	140.9	2.27	310	clearing
1415	22.18		3.3	6.77	24.1	0.630	137.0	2.15	269	"
1435	22.22		4.5	6.78	25.8	0.634	90.5	2.42	288	"
1445	22.36		5.5	6.77	26.7	0.640	42.8	2.29	230	"
1455	22.37		7.0	6.77	25.9	0.636	50.4	2.31	150	clear
1500	22.34		8.0	6.77	25.6	0.642	53.9	2.22	118	clear
1505	22.37		8.5	6.77	25.4	0.642	62.1	2.14	95	clear
1510	22.37		9.0	6.77	25.4	0.641	65.6	2.03	92	clear
1515	22.38		9.5	6.76	25.4	0.643	53.5	2.10	91	clear
Observations										
Color: <input checked="" type="checkbox"/> Clear Other (describe):										
Odor: <input checked="" type="checkbox"/> None Low Medium High Very Strong H2S Fuel-Like										
Sample Parameters: VOLCS (MS/MSD/Dup location)										
Notes: OVM = 0.0 ppm										
* flow cut out, waited 20 min for parameter collection										
Sample Date/Time: 15/17										
Signed/Sampler: K.Swanson / M.Phillips										

FIELD SAMPLING REPORT

LOCATION: <u>HM-166</u>	PROJECT: <u>AOCZ RFI</u>																																																												
SITE: <u>NAS Fort Worth JRB</u>																																																													
SAMPLE INFORMATION																																																													
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA095</u>																																																												
SAMPLING METHOD <u>low-flow/SP</u>	DUP./REP. OF: _____																																																												
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>																																																												
END DEPTH _____																																																													
GRAB () COMPOSITE ()	DATE: <u>12/19/97</u> TIME: <u>1317</u>																																																												
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																																											
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2nd <u>0.0 ppm</u>	ODOR: <u>none</u>																																																												
	OTHER:																																																												
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WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																																										
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____	OTHER _____																																																										
SHIPPED TO: <u>Parragon Analytics, Inc.</u>																																																													
COMMENTS: _____																																																													
SAMPLER: <u>M. Phillips</u>	OBSERVER: <u>K. Swanson</u>																																																												
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																											
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																																										

Figure 1: Well Sampling Field Data Sheet

652-305

Well Number:	HM-117	Site:	NAS Fort Worth URB / AQZ RPI							
Crew:	K. Swanson, M. Phillips	Date:	12/19/97							
Well Depth (ft.):	39.5	Initial D.O. Profile:								
DTW (ft.)	21.42	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	18.5 - 33.5									
Well Diameter (in.)	4"									
Placement of Pump (ft.)	35'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) ms mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1012	21.42		0.4	6.70	21.0	0.829	107.5	0.35	120	sl. cloudy
1015	21.49		1.9	6.68	23.4	0.817	25.2	0.17	117	"
1020	21.47		3.5	6.69	22.9	0.807	6.8	0.39	128	144
1035	21.42		3.9	6.69	23.0	0.805	29.8	0.39	145	"
1040	21.43		4.5	6.69	23.4	0.801	3.1	0.36	135	"
1045	21.43		5.0	6.71	23.9	0.801	21.1	0.20	121	"
1050	21.43		5.5	6.70	24.2	0.798	15.7	0.16	123	"
1055	21.43		6.0	6.71	24.3	0.795	12.3	0.15	120	"
1100	21.43		7.0	6.71	24.4	0.788	18.4	0.26	138	"
1105	21.43		7.5	6.70	24.9	0.787	-19.0	0.28	131	"
1120	21.42		7.9	6.71	24.8	0.787	-48.3	0.20	130	"
1125	21.41		8.3	6.70	24.9	0.784	-49.7	0.19	124	"
1130	21.41		8.6	6.70	25.2	0.786	-51.6	0.17	110	clear
1135	21.42		9.0	6.71	25.1	0.782	-48.4	0.21	107	clear
1140	21.42		9.5	6.72	25.1	0.779	-43.4	0.23	103	clear
Observations										
Color:	Clear	Other (describe): slightly cloudy initially								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: VOCs										
Notes: O/M = 0.0										
Sample Date/Time: 12/19/97 / 1142										
Signed/Sampler: K.E. Swanson / M. Phillips										

FIELD SAMPLING REPORT

LOCATION: <u>HM-117</u>	PROJECT: <u>AOC2 API</u>																																																															
SITE: <u>NAS Fort Worth JRB</u>																																																																
SAMPLE INFORMATION																																																																
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA091</u>																																																															
SAMPLING METHOD <u>low-flow/SP</u>	DUP./REP. OF: <u>-</u>																																																															
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																																															
END DEPTH _____																																																																
GRAB () COMPOSITE ()	DATE: <u>12/19/97</u> TIME: <u>1142</u>																																																															
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	OTHER:																																																															
GENERAL INFORMATION																																																																
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/> OVERCAST/RAIN <input checked="" type="checkbox"/> WIND DIRECTION _____ AMBIENT TEMP _____	<u>cloudy during part of purge</u>																																																															
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/> HAND DELIVER _____ COURIER _____ OTHER _____																																																																
SHIPPED TO: <u>Paragon Analytics</u>																																																																
COMMENTS: _____																																																																
SAMPLER: <u>M. Phillips</u>	OBSERVER: <u>K. Swanson</u>																																																															
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Figure 1: Well Sampling Field Data Sheet

652' 307 ft

Well Number:	HM-118	Site:	NAS Fort Worth JRB / AOC Z PFI							
Crew:	M. Phillips, K. Swanson	Date:	12/19/97							
Well Depth (ft.):	27.0	Initial D.O. Profile:								
DTW (ft.)	15.16	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	6.2 - 26.2									
Well Diameter (in.)	4"									
Placement of Pump (ft.)	23									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0847	15.16			6.34	20.3	2.14	198.5	0.50	177	slightly cloudy
0851	15.19		0.4	6.50	21.2	2.13	106.1	0.20	86	clear
0856	15.16		1.1	6.50	21.2	2.13	-	-	-	-
0901	15.16		1.7	6.51	21.1	2.08	56.2	0.20	50	clear
0906	15.17		2.0	6.52	21.5	2.09	17.1	0.21	10	clear
0911	15.16		2.5	6.53	21.8	2.01	-5.4	0.22	13	clear
0916	15.16		2.9	6.52	22.0	2.05	-18.2	0.21	7	clear
0921	15.16		3.1	6.53	22.4	2.02	-18.3	0.22	13	clear
0930	15.16		3.5	6.52	22.6	2.04	-20.5	0.21	39	clear
0935	15.16		3.9	6.53	22.5	2.02	-25.3	0.21	43	clear
0940	15.16		4.3	6.53	23.0	2.02	-18.9	0.20	40	clear
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: VOCs										
Notes: OVM = 0.0										
*Zero-ed turbidity, seemed to be reading a bit low										
Sample Date/Time: 12/19/97 / 0942										
Signed/Sampler: K.S. Swanson / M. Phillips										

652 308

FIELD SAMPLING REPORT

LOCATION: <u>HM-118</u>	PROJECT: <u>AOCZ CFI</u>																																			
SITE: <u>NAS Fort Worth JRB</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA090</u>																																			
SAMPLING METHOD <u>low-flow/SP</u>	DUP./REP. OF: <u>-</u>																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>																																			
END DEPTH _____																																				
GRAB () COMPOSITE ()	DATE: <u>12/19/97</u> TIME: <u>0942</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td><u>VDCS</u></td><td><u>3</u></td><td></td><td><u>8260</u></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>VDCS</u>	<u>3</u>		<u>8260</u>																										
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																
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NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
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2nd <u>0.0 ppm</u>	ODOR. <u>none</u>																																			
	OTHER																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																	
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Paragon Analytics</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>M. Phillips</u>	OBSERVER: <u>K. Swanson</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

Well Number:	HM-119		Site:	NAS doc 7							
Crew:	M. Wilson, C. Fitzgerald		Date:	12/19/97							
Well Depth (ft.):	29.0'		Initial D.O. Profile:								
DTW (ft.)	13.10		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	9' - 29'										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1132	13.10	-	-	6.59	19.7	.717	234.5	0.64	7	clear	
1137	13.10		0.5	6.86	20.1	.704	229.0	0.20	9	"	
1142	13.10		1.1	6.84	20.7	.696	221.8	0.18	8	"	
1147	13.10		1.5	6.91	20.3	.684	222.6	0.34	7	"	
1152	13.10		1.9	6.85	21.6	.666	217.1	0.33	3	a	
1157	13.10		2.3	6.88	22.2	.669	217.8	0.19	3	"	
1202	13.10		2.7	6.84	22.1	.677	215.0	0.21	0	"	
1207	13.10		3.0	6.85	21.7	.678	213.9	0.21	0	"	
Observations											
Color:	Clear		Other (describe):								
Odor:	None		Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:											
Notes:	P10m										
Sample Date/Time: 12/19/97 / 1710											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: <u>HM-119</u>	PROJECT: <u>138681.AZ.12</u>																																													
SITE: <u>NAS AOC 2</u>																																														
SAMPLE INFORMATION																																														
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA 094</u>																																													
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																													
BEGINNING DEPTH <u>26'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO ()																																													
END DEPTH <u>26'</u>	<u>1210</u>																																													
GRAB () COMPOSITE ()	DATE: <u>12/19/97</u> TIME: <u>#1210 MW</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CONTAINER</th> <th style="text-align: left; padding: 2px;">PRESERVATIVE/ PREPARATION</th> <th style="text-align: left; padding: 2px;">EXTRACTION METHOD</th> <th style="text-align: left; padding: 2px;">ANALYTICAL METHOD</th> <th style="text-align: left; padding: 2px;">ANALYSIS</th> </tr> <tr> <th style="text-align: left; padding: 2px;">SIZE/TYPE</th> <th style="text-align: left; padding: 2px;">#</th> <th colspan="3" style="padding: 2px;"></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#																																						
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2nd <u>0</u>	ODOR: <u>Nom</u>																																													
	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR <u>Y</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>60°</u>																																											
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																											
SHIPPED TO: <u>Paragon</u>																																														
COMMENTS: _____																																														
SAMPLER: <u>MacLean</u>	OBSERVER: _____																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BALER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

6520311d

Figure 1: Well Sampling Field Data Sheet

Well Number:	<u>HM-120</u>		Site:								
Well Crew:	<u>M. Wilson, C. Fitzgerald</u>		Date:	<u>12/16/97</u>							
Well Depth (ft.):	<u>17.6</u>		Initial D.O. Profile:								
DTW (ft.)	<u>4.89</u>		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	<u>7.6 - 17.6'</u>										
Well Diameter (in.)	<u>4"</u>										
Placement of Pump (ft.)	<u>16'</u>										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
<u>1040</u>	<u>9.91</u>	<u>-</u>	<u>-</u>	<u>5.88</u>	<u>18.7</u>	<u>1.35</u>	<u>19.6</u>	<u>1.59</u>	<u><10</u>	<u>clear</u>	
<u>1039</u>	<u>4.89</u>	<u>0.1</u>	<u>0.5</u>	<u>5.97</u>	<u>19.1</u>	<u>1.35</u>	<u>69.7</u>	<u>1.54</u>	<u><10</u>	"	
<u>1045</u>	<u>4.89</u>	<u>0.1</u>	<u>1.0</u>	<u>6.00</u>	<u>19.9</u>	<u>1.31</u>	<u>66.5</u>	<u>1.35</u>	<u><10</u>	"	
<u>1050</u>	<u>4.89</u>	<u>0.08</u>	<u>1.8</u>	<u>6.02</u>	<u>20.2</u>	<u>1.27</u>	<u>53.3</u>	<u>1.25</u>	<u><10</u>	"	
<u>1055</u>	<u>4.89</u>	<u>0.09</u>	<u>2.2</u>	<u>6.06</u>	<u>20.3</u>	<u>1.23</u>	<u>52.3</u>	<u>1.22</u>	<u><10</u>	"	
<u>1100</u>	<u>4.89</u>	<u>0.09</u>	<u>2.6</u>	<u>6.08</u>	<u>20.4</u>	<u>1.21</u>	<u>54.0</u>	<u>1.13</u>	<u><10</u>	"	
<u>1105</u>	<u>4.89</u>	<u>0.09</u>	<u>3.0</u>	<u>6.10</u>	<u>20.7</u>	<u>1.20</u>	<u>52.1</u>	<u>1.11</u>	<u><10</u>	"	
<u>121.1m</u>											
Observations											
Color:	<u>Clear</u>	Other (describe):									
Odor:	<u>None</u>	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes:	<u>0 ppm</u> <u>had to remove a manual pump</u> <u>AHA066 + AHA069 FDI</u>										
Sample Date/Time: <u>12/16/97 / 1115</u>											
Signed/Sampler: <u>M. Wilson</u>											

FIELD SAMPLING REPORT

LOCATION: Hm-120
 SITE: NAS AOCZ

PROJECT: 138681.AZ.12

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA 066SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 16'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 16'YES NO GRAB COMPOSITE DATE: 12/16/97 TIME: 1115

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>B</u>	COLOR: <u>Clear</u>	
2nd <u>B</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

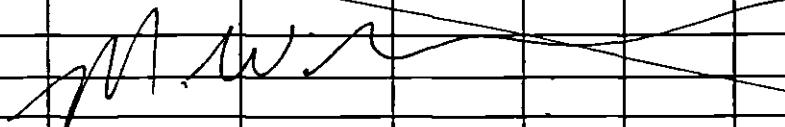
WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 60°SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Parson

COMMENTS: _____

SAMPLER: Mazin OBSERVER: C. Fitzgerald

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BALER	G=GRAB		
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP		

Figure 1: Well Sampling Field Data Sheet

Well Number: HM-121 (AHA072)		Site: NAS AOC 2									
Crew: M. Wilson / C. Fitzgerald		Date: 12/17/97									
Well Depth (ft.):	30.45'	Initial D.O. Profile:									
DTW (ft.)	17.69	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):											
Well Diameter (in.)	4"										
Placement of Pump (ft.)	25'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0924	17.64	—	—	6.93	18.1	1.50	239.2	1.77	282	SL. cloudy	
0929	17.63		0.7	6.97	17.6	1.55	212.1	1.70	291	" "	
0934	17.64		0.4	6.96	18.0	1.53	209.3	1.92	288	" "	
0939	17.64		0.7	6.96	18.3	1.54	180.7	1.86	278	" "	
0944	17.63		0.9	6.96	17.8	1.53	164.7	1.83	249	" "	
0949	17.64		1.1	6.96	18.1	1.53	162.7	1.87	194	" "	
0954	17.79		1.3	6.95	18.3	1.52	155.2	1.79	184	" "	
0959	17.75		1.5	6.95	18.6	1.52	155.3	1.00	180	" "	
04	17.70		1.8	6.95	18.8	1.53	147.5	1.74	190	" "	
											
Observations											
Color:	Clear	Other (describe): SL. cloudy									
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOLs, NA parameters for HGL & CHEM										
Notes:	Manual pump in well										
DVM = 0.6											
Sample Date/Time: 12/17/97 1010											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: HM-1Z1
 SITE: NAS AOCZ

PROJECT: 138601.AZ.12

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA072SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 25'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 25'YES () NO GRAB COMPOSITE DATE: 12/17/97 TIME: 1010

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.6</u>	COLOR <u>St. Cloudy</u>	
2nd <u>0.0</u>	ODOR: <u>None</u>	
	OTHER.	

GENERAL INFORMATION

WEATHER:	SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN	WIND DIRECTION	AMBIENT TEMP	<u>60°</u>
SHIPMENT VIA:	FED-X <input checked="" type="checkbox"/>	HAND DELIVER	COURIER	OTHER	
SHIPPED TO:	<u>Paragon</u>				
COMMENTS:	<u>Manual pump in well removed</u>				
SAMPLER:	<u>M. Wi</u>	OBSERVER:	<u>C. Fitzgerald</u>		

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUNDS WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWAB\WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: HM-125		Site: NAS Fort Worth JRB								
Field Crew: K Swanson, M. Phillips		Date: 12/22/97								
Well Depth (ft.): 33		Initial D.O. Profile:								
DTW (ft.) 17.46		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 13 - 33										
Well Diameter (in.) 4"										
Placement of Pump (ft.) 29										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) MS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1404	17.46		0.7	6.95	20.6	0.502	16.5	3.18	30	clear
1410	17.46		0.9	6.95	20.6	0.500	59.0	3.09	30	clear
1415	17.47		1.1	6.94	21.3	0.491	21.2	3.09	30	clear
1420	17.49		1.5	6.92	21.1	0.483	10.2	3.30	36	clear
1425	17.49		1.8	6.94	22.1	0.482	-2.8	3.24	36	clear
1430	17.49		2.0	6.94	22.6	0.481	-3.2	3.24	36	clear
1435	17.48		2.2	6.93	22.4	0.478	-11.5	3.47	31	clear
1440	17.49		2.3	6.92	22.5	0.477	-8.5	3.56	33	clear
1450	17.49		2.7	6.92	23.0	0.477	-9.7	3.56	32	clear
1505	17.49		2.9	6.93	22.5	0.475	-16.7	3.435	34	clear
1500	17.48		3.1	6.92	23.1	0.469	-13.5	3.42	30	clear
1505	17.48		3.3	6.92	23.0	0.473	-12.1	3.48	32	clear
Observations										
Color:	<input checked="" type="checkbox"/> Clear	Other (describe):								
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:										
Notes: OVM = 0.0 ppm Left manual pump inside well, were able to get pump down										
Sample Date/Time: 12/22/97 / 1507										
Signed/Sampler: K Swanson, M. Phillips										

FIELD SAMPLING REPORT

LOCATION: HM-125 PROJECT: NAS Fort Worth JRB
 SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: AAA/05

SAMPLING METHOD low-flow SP DUP/REP. OF: -

BEGINNING DEPTH _____ MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 YES () NO 60

END DEPTH _____

GRAB () COMPOSITE () DATE: 12/22/97 TIME: 1507

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE #				
VOLs 3			8260	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0</u>	COLOR: <u>clear</u>	
2nd <u>0.0</u>	ODOR <u>none</u>	
	OTHER.	

GENERAL INFORMATION

WEATHER. SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: _____

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=WAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

R 652 317

Well Number: LSA1628-3	Site: NAS Fort Worth JRB										
Field Crew: M. Phillips, K. Swanson	Date: 12/16/97										
Well Depth (ft.): 18.5	Initial D.O. Profile:										
DTW (ft.) 9.85	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 8.5 - 18.5											
Well Diameter (in.) 4"											
Placement of Pump (ft.) 11											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1400	9.85		0.2	6.69	23.6	1.21	47.0	2.1	35	clear	
1403	9.89		1.0	6.79	24.9	1.21	57.9		25	clear	
14:08	9.89		2.0	6.81	25.1	1.21	74.0		16	clear	
14:13	9.85		2.5	6.81	25.3	1.21	51.0		15	clear	
1418	9.87		2.8	6.80	25.8	1.21	49.8		15	clear	
1423	9.84		3.0	6.80	26.4	1.21	60.2		16	clear	
1428	9.85		3.2	6.80	26.7	1.21	70.7		16	clear	
1432	9.84		3.5	6.80	27.0	1.21	88.6		15	clear	
1438	9.86		3.8	6.81	27.1	1.21	7.6		1822	clear	
1443	9.87		4.0	6.81	27.3	1.21	-24.0		26	clear	
1453	9.85		4.3	6.80	27.3	1.22	24.2		24	clear	
1458	9.85		4.7	6.81	27.2	1.22	-36.3		21	clear	
1503	9.86		5.1	6.80	27.2	1.22	-35.7		19	clear	
1508	9.86		5.3	6.80	27.0	1.22	-24.2	0.8	22	clear	
Observations											
Color: Clear	Other (describe):										
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters:											
Notes: ODM = 0.0											
* DO readings done by HACH spectrophotometer, method 8166											
Sample Date/Time: 12/16/97 / 1510											
Signed/Sampler: K. Swanson / M. Phillips											

FIELD SAMPLING REPORT

LOCATION: LSA1628-3

PROJECT: AOC2 RFI

SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX W6

SAMPLE ID: AHAO

SAMPLING METHOD low-flow/SP

DUP./REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 12/16/97 TIME: 1510

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
VOC	3	HCl		3260
CH4	3	-		
All Anions	1	-		
Cations	1			
TOC	1			
Fe2+	3	-	HACH 8146	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0 ppm	COLOR: clear	
2nd 0.0 ppm	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER _____

SHIPPED TO: Paragon Analytics / QAL → CH4 only

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number:	WW-3	Site:	NAS Fort Worth VRB
Crew:	K. Swanson, M. Phillips	Date:	12/23/97
Well Depth (ft.):	19.88	Initial D.O. Profile:	
DTW (ft.)	10.30	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.):			
Well Diameter (in.)	4"		
Placement of Pump (ft.)	13.5 13.5 wes		

Field Parameters

Observations

Color: **Other (describe):**

Odor: None Low Medium High Very Strong H₂S Fuel-Like

Sample Parameters:

Notes: OVM = 0.0 ppm

Raining steadily throughout purge

Sample Date/Time: 12/23/97 / 0852

Signed/Sampler: K.E.Swan / M.Phillips

652 320

FIELD SAMPLING REPORT

LOCATION: MW-3

PROJECT: AOC2 RPI

SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX NG

SAMPLE ID: AHA058

SAMPLING METHOD low-flow/SP

DUP/REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH _____

YES () NO (X)

GRAB () COMPOSITE ()

DATE: 12/23/97 TIME: 0852

CONTAINER SIZE/TYPE #	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
VOL: 3			8260	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0 ppm	COLOR clear	
2nd 0.0 ppm	ODOR none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR ____ OVERCAST/RAIN X WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: _____

COMMENTS: gust of wind blew generator cabinet in the direction of sampling port

SAMPLER: M Phillips

OBSERVER: Kidawan during sampling

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: MW-49 (AHA 074)	Site: NAS AOCZ
Crew: M. Wilson, C Fitzgerald	Date: 12/17/97
Well Depth (ft.):	15.5'
DTW (ft.)	10.03
Depth of screen (ft.):	
Well Diameter (in.)	4"
Placement of Pump (ft.)	130'

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1332	10.09	—	—	6.96	20.6	1.36	108.0	0.80	25	Clear
1337	10.08		0.3	7.01	20.6	1.36	73.0	0.66	18	"
1342	10.06		0.7	7.03	21.5	1.36	66.7	0.31	24	"
1347	10.06		1.0	7.03	21.8	1.36	61.5	0.70	23	"
1352	10.06		1.4	7.03	22.2	1.36	58.1	0.65	18	"

Observations

Color:	Clear	Other (describe):
Odor:	None	Low Medium High Very Strong H2S Fuel-Like
Sample Parameters:	10L3	N4 parameters for AGL
Notes:	1.4 ppm = 0m	
Sample Date/Time:	12/17/97	/ 1405
Signed/Sampler:	M. Wilson	

FIELD SAMPLING REPORT

LOCATION: <u>MW-49</u>	PROJECT: <u>138681.AZ.12</u>																																													
SITE: <u>NAS AFB</u>																																														
SAMPLE INFORMATION																																														
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA074</u>																																													
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: _____																																													
BEGINNING DEPTH <u>13'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>NO</u>																																													
END DEPTH <u>13'</u>																																														
GRAB () COMPOSITE ()	DATE: <u>12/17/97</u> TIME: <u>1405</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																								
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																										
NOTABLE OBSERVATIONS																																														
PID/READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																												
1st <u>0.14 ppm</u>	COLOR: <u>Clear</u>																																													
2nd <u>0</u>	ODOR: <u>None</u>																																													
	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>64°</u>																																											
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																											
SHIPPED TO: <u>Paragon</u>																																														
COMMENTS _____																																														
SAMPLER: <u>M. W.</u>	OBSERVER: <u>C. Fitzgerald</u>																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

652 323

Well Number:	MW-57		Site: NAS Fort Worth JRB							
Crew:	M. Phillips, K.Swanson		Date: 12/18/97							
Well Depth (ft.):	14.30		Initial D.O. Profile:							
DTW (ft.)	11.93	14.30 ^{Kes} _{12/18/97}	D.O. (mg/l)	Depth to water (ft.)						
Depth of screen (ft.):										
Well Diameter (in.)	4"									
Placement of Pump (ft.)	13.5	4" ^{Kes} _{12/18/97}								
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (mhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0928	11.93									
0933	12.95		0.5	6.78	22.2	5.06	213.0	1.12	18	clear
0938 -	lowered pump after losing flow									
0945	13.50		1.0	6.73	26.5	6.25	130.5	0.76	43	
	Well water dropped below pump intake even at very low flow rates, will bail well									
1028	13.65		1.5	6.72	26.7	6.35	174.5	2.73	7.63	
	Well dry after purging 1.8 gallons. Left bailed in well & will return in the afternoon to collect sample for VOCs, TDS at 14.15' measured									
1400 -	returned to check bailed, very little recovery, will return tomorrow AM.									
12/19/97	returned to collect sample from bailed, very little recovery, bailed several times to collect enough volume for 3 10ml VOA. Collected sample at 0820									
Observations										
Color:	Clear	Other (describe): / cloudy when bailed								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOCs									
Notes:	ONH = 0.0 ppm									
Sample Date/Time:	12/19/97 / 0820									
Signed/Sampler:	KESwanson, M. Phillips									

FIELD SAMPLING REPORT

LOCATION: MW-57

PROJECT: Acc2 RFI

SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WG
SAMPLING METHOD bailer

SAMPLE ID: A1A0

DUP./REP. OF: -

BEGINNING DEPTH

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH

19

GRAB () COMPOSITE ()

DATE: 12/16/97 TIME: 0820

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE #				
VOLs 3			8260	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0 ppm	COLOR: clear / cloudy when bailed	
2nd 0.0 ppm	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB		
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWABWIPE	SP=SUBMERSIBLE PUMP		

1652 1325

Figure 1: Well Sampling Field Data Sheet

Well Number: MW-57B	Site: NAS AOC 2
Crew: M. Wilson, C. Fitzgerald	Date: 12/16/97
Well Depth (ft.):	19.5
DTW (ft.)	7.36
Depth of screen (ft.):	
Well Diameter (in.)	4"
Placement of Pump (ft.)	18'

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1155	8.0	—	—	6.40	20.3	7.88	75.8	1.12	<10	Clear
1200	8.61	0.1	0.5	6.31	21.5	8.64	125.1	0.51	<10	"
1205	8.7, 2	0.07	0.8	6.37	21.5	8.62	117.3	0.52	<10	"
1210	8.80	—	1.0	6.33	21.1	8.49	129.3	0.55	<10	"
1215	8.80	—	1.1	6.36	20.3	8.39	133.0	0.90	<10	"
1220	8.83	—	1.2	6.37	19.9	7.73	128.9	0.90	<10	"
1225	8.87	—	1.3	6.38	20.1	8.15	125.3	0.98	<10	"
1230	8.90	—	1.5	6.39	20.8	8.03	124.0	1.10	<10	"

Observations

Color:	Clear	Other (describe):
Odor:	None	Low Medium High Very Strong H2S Fuel-Like
Sample Parameters:		
Notes: 0 gpm * ORP probe low on fluid		
Sample Date/Time: 12/16/97 / 1235		
Signed/Sampler: M. Wilson		

FIELD SAMPLING REPORT

LOCATION: <u>MW-57B</u>	PROJECT: <u>NAS AOC 2</u> <u>B8681.A2.12</u>																																													
SITE: _____																																														
SAMPLE INFORMATION																																														
MATRIX <u>WG</u>	SAMPLE ID: <u>AH067</u>																																													
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																													
BEGINNING DEPTH <u>18'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO ()																																													
END DEPTH <u>18'</u>																																														
GRAB (Y) COMPOSITE ()	DATE: <u>12/16/97</u> TIME: <u>1235</u>																																													
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																												
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2nd <u>8</u>	ODOR: <u>No</u>																																													
	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR <u>Y</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>63°</u>																																											
SHIPMENT VIA: FED-X <u>Y</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																											
SHIPPED TO: <u>Parson</u>																																														
COMMENTS: _____																																														
SAMPLER: <u>M. m.</u>	OBSERVER: <u>C. Fitzgerald</u>																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUN'D WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BALER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

Well Number: MW-59		Site: NAS Fort Worth R8								
Crew: K. Swanson, M. Phillips		Date: 12/18/97								
Well Depth (ft.):	19.64	Initial D.O. Profile:								
DTW (ft.)	19.35	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	?									
Well Diameter (in.)	4"									
Placement of Pump (ft.)	—									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
<p>*WELL HAD 0.29' of water, will not sample TOWER CONSTRUCTION NEAR-BY, CHECKED MW-58, WELL HAD 0.41' of water</p>										
Observations										
Color: Clear Other (describe):										
Odor: None Low Medium High Very Strong H ₂ S Fuel-Like										
Sample Parameters:										
Notes:										
Sample Date/Time:										
Signed/Sampler:										

Figure 1: Well Sampling Field Data Sheet

Well Number: SPOT-35-4		Site: NAS Fort Worth SRB / AOCZ RP1								
Crew: K. Swanson, M. Phillips		Date: 12/22/97								
Well Depth (ft.): 26.3		Initial D.O. Profile:								
DTW (ft.) 20.44		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 14.3 - 24.3										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 23' 20.44 vs										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1550	20.36 20.46			6.63	21.4	1.32	-72.6	0.70	130	sl. cloudy
1553	21.23		0.2	6.67	22.5	1.26	-82.5	0.20	529	cloudy
1558	21.18		0.8	6.68	24.3	1.21	-86.6	0.35	440	"
1603	21.60		1.1	6.71	25.6	1.14	-92.3	0.30	430	"
1609	21.22		1.7	6.71	26.8	1.08	-100.2	0.22	976	very cloudy
1615	21.22		2.1	6.73	26.8	1.08	-99.2	0.16	701	"
1620	21.67		2.8	6.73	26.8	1.09	-105.7	0.13	927	"
1625	21.60		3.1	6.74	26.8	1.05	-106.6	0.15	805	"
1630	21.54		4.0	6.75	26.5	1.00	-105.4	0.08	283	clearing *
1635	22.20		5.0	6.77	25.4	1.00	-110.6	0.16	292	"
1640	22.39		6.0	6.76	26.5	0.97	-112.0	0.09	520	cloudy
1645	22.11		6.7	6.71	25.1	0.97	-109.7	0.11	530	cloudy
1650	21.67		7.0	6.81	24.4	0.95	-113.2	0.12	550	"
1655	21.85		7.8	6.79	20.2	0.92	-111.5	0.09	940	very cloudy
1700	22.09		8.4	6.76	26.4	0.93	-107.0	0.12	679	"
1705	21.75		9.1	6.80	24.6	0.835	-115.0	0.08	685	"
1710	21.84		9.7	6.79	27.3	0.828				
Observations										
Color: Clear	(Other) describe: cloudy/tan									
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:										
Notes: OVM = 0.0 ppm										
* Flushed out fl. cu prior to reading										
Purged total of 10.3 well volumes (1 well vol. = 0.94 gal)										
Sample Date/Time: 12/22/97 / 1715										
Signed/Sampler: K. Swanson / M. Phillips										

652 329

FIELD SAMPLING REPORT

LOCATION: <u>SPOT-35-4</u>	PROJECT: <u>AOC 2 RFI</u>																																								
SITE: <u>NAS FORT WORTH URB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>W6</u>	SAMPLE ID: <u>ANAL 07</u>																																								
SAMPLING METHOD <u>low-flow</u>	DUP./REP. OF: <u>-</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>12/22/97</u> TIME: <u>1715</u>																																								
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>0.0 ppm</u>	COLOR: <u>cloudy/tau</u>																																								
2nd <u>0.0 ppm</u>	ODOR: <u>medium</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN <u>X</u>	WIND DIRECTION _____ AMBIENT TEMP _____																																							
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____ COURIER _____	OTHER _____																																							
SHIPPED TO: _____																																									
COMMENTS: _____																																									
SAMPLER: <u>M. Phillips</u>	OBSERVER: <u>K. Swanson</u>																																								
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652 330

Figure 1: Well Sampling Field Data Sheet

Well Number: USGS 04T	Site: NBS AOC?
Crew: M. Wilson, C. Fitzgerald	Date: 12/10/97
Well Depth (ft.):	Initial D.O. Profile:
DTW (ft.)	19.23'
Depth of screen (ft.):	D.O. (mg/l)
Well Diameter (in.)	Depth to water (ft.)
Placement of Pump (ft.)	2"
	21'

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1315	18.24	—	—	7.70	22.8	.597	220.6	.73	>1000	V. Cloudy re
1370	18.25		0.3	7.67	22.9	.599	223.7	1.00	>1000	" "
1325	18.24		0.8	7.68	23.6	.602	220.9	0.58	>1000	" "
1330	18.24		1.1	7.66	24.7	.600	216.6	0.56	>1000	" "
1335	18.24		1.5	7.68	24.6	.603	214.9	0.59	820	cloudy
1340	18.24		1.9	7.69	24.7	.593	217.2	1.02	445	clearing
1343	18.24			7.61	24.3	—	467	115	"	→
1345	18.24		2.1	7.81	24.1	.604	210.4	1.65	345	"
1350	18.23		2.2	7.72	24.7	.605	208.2	0.86	334	"
1355	18.24		2.4	7.70	24.6	.604	200.8	0.61	255	"
1405	18.23		2.8	7.71	25.8	.615	198.0	0.71	229	"
1415	18.26		3.0	7.70	30.3	.625	196.3	1.01	645	Surge
1420	18.24		3.5	7.70	27.4	.614	194.1	.81	580	clearing
1425	18.24		3.9	7.71	25.7	.599	193.3	1.17	288	"
1430	18.24		4.5	7.69	25.6	.573	190.5	.50	99	clear
1435	18.24		4.7	7.69	25.7	.575	187.0	.44	101	"
1440	18.24		5.0	7.69	25.7	.577	183.1	.50	91	"

Observations

Color: Clear Other (describe):Odor: None Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes: 0 ppm

* - H2O level below meters

Sample Date/Time: 12/10/97 / 1445

Signed/Sampler: M. Wilson

FIELD SAMPLING REPORT

LOCATION: <u>USGS 04T</u>	PROJECT: <u>138681.AZ.12</u>																																		
SITE: <u>NAS AOCZ</u>																																			
SAMPLE INFORMATION																																			
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA081</u>																																		
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>—</u>																																		
BEGINNING DEPTH <u>21</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																		
END DEPTH <u>21</u>																																			
GRAB (Y) COMPOSITE ()	DATE: <u>12/10/97</u> TIME: <u>1445</u>																																		
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2nd <u>8</u>	ODOR. <u>None</u>																																		
	OTHER:																																		
GENERAL INFORMATION																																			
WEATHER: SUN/CLEAR <u>Y</u>	OVERCAST/RAIN <u>—</u>	WIND DIRECTION <u>—</u>	AMBIENT TEMP <u>70°</u>																																
SHIPMENT VIA. <u>FED-X</u>	HAND DELIVER <u>—</u>	COURIER <u>—</u>	OTHER <u>—</u>																																
SHIPPED TO. <u>Paragon</u>																																			
COMMENTS. <u>—</u>																																			
SAMPLER: <u>M. Wiz</u>	OBSERVER: <u>C. Fitzgerald</u>																																		
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DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																

18652-332

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHM HTA 001		Site: NAS Fort Worth JRG / ADCZ RFI									
Crew: M. Phillips, K. Swanson		Date: 12/17/97									
Well Depth (ft.):	45.18	Initial D.O. Profile:									
DTW (ft.)	27.20	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	25-45										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	40'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1458	27.20		0.1	6.96	21.1	0.749	120.2	1.70	999	very cloudy	
1500	27.24		0.8	7.05	21.6	0.726	110.0	1.78	999	" "	
1505	27.25		1.2	7.04	21.7	0.726	94.1	1.83	999	" "	
1510	27.25		3.540	7.01	23.8	0.734	86.9	1.17	999	cloudy	
1524	27.23		6	7.03	24.1	0.737	120.6	1.12	760	cloudy	
1535	27.20		6.5	7.07	24.5	0.731	144.9	1.21	520	"	
1545	27.23		7.0	7.02	24.7	0.736	148.6	1.28	508	"	
1550	27.22		7.5	7.02	25.2	0.737	150.0	1.21	375	"	
1555	27.23		7.9	7.01	25.2	0.739	149.6	1.13	272	clearing	
1605	27.22		8.5	7.01	26.1	0.716	146.6	1.27	224	"	
1610	27.21		8.9	7.02	25.8	0.718	144.5	1.13	185	"	
1615	27.21		9.2	7.01	24.3	0.726	146.9	1.25	154	clear	
1625	27.22		9.8	7.02	24.8	0.736	145.0	1.27	146	clear	
1630	27.22		10.1	7.02	24.9	0.738	144.7	1.11	142	clear	
1635	27.22		10.3	7.01	25.0	0.739	143.7	1.10	132	clear	
1640	27.22		10.5	7.01	25.2	0.739	159.6	1.08	128	clear	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: DVM = 0.0 ppm											
Sample Date/Time: 12/17/97 / 1640											
Signed/Sampler: K. Swanson, M. Phillips											

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FIELD SAMPLING REPORT

LOCATION: WCHMHTA001

PROJECT: AOCZ RFI

SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: AAA075

SAMPLING METHOD low-flow/SP

DUP/REP. OF:

BEGINNING DEPTH

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH

GRAB () COMPOSITE ()

DATE: 12/17/97 TIME: 1640

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
VOCs	3			B260	
Ale. Anions	1				
Fe ²⁺	3				
CH ₄	3				
Cations	1				
TOL	1				

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0.0 ppm	COLOR: clear	
2nd 0.0 ppm	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X ✓ HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: Paragon Analytics, CH₄ to QAL / Corvallis

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652 334

Well Number: WCHMNT4002	Site: NWS AOC 7
Crew: M.Wilson, C.Fitzgerald	Date: 12/19/97
Well Depth (ft.): 42'	Initial D.O. Profile:
DTW (ft.) 20.10' 42' (DW)	D.O. (mg/l)
Depth of screen (ft.): 22'-42'	Depth to water (ft.)
Well Diameter (in.) 2"	
Placement of Pump (ft.) 40'	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1240	20.24	-	-	7.15	19.8	.613	226.0	3.34	>1000	cloudy
1245	20.24		0.5	7.12	20.4	.623	224.1	2.67	>1000	"
1255	20.24		1.9	7.14	21.5	.585	221.1	3.12	976	"
1305	20.23		2.7	7.12	22.0	.587	200.7	2.98	>1000	"
1315	20.21		3.4	7.11	22.3	.611	198.8	2.60	796	clearing
1325	20.22		4.0	7.11	22.3	.620	199.7	2.64	402	"
1335	20.23		4.7	7.09	22.6	.595	207.0	2.83	358	"
1345	20.23		5.7	7.09	22.7	.637	211.3	2.84	122	clear
1400	20.23		6.8	7.07	22.7	.637	214.7	2.79	66	"
1405	20.23		7.1	7.07	22.7	.640	214.7	2.26	46	"
1410	20.23		7.5	7.07	22.7	.639	212.3	2.28	37	"
1415	20.23		8.0	7.07	22.7	.641	212.7	2.25	35	"
1420	20.23		8.4	7.06	22.7	.642	213.7	2.20	34	"

Observations

Color: <input checked="" type="radio"/> Clear	Other (describe):
Odor: <input checked="" type="radio"/> None	Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes: 0.3 ppm

Sample Date/Time: 12/19/97 / 1425

Signed/Sampler: M. Wilson

FIELD SAMPLING REPORT

LOCATION: WCHMHTAOZPROJECT: 138681.42.12SITE: NAs AOCZ

SAMPLE INFORMATION

MATRIX (w)GSAMPLE ID: A1A092SAMPLING METHOD SPDUP/REP. OF: —BEGINNING DEPTH 40'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)END DEPTH 40'

GRAB (Y) COMPOSITE ()

DATE: 12/19/97 TIME: 1425

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0,3</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR Y OVERCAST/RAIN — WIND DIRECTION — AMBIENT TEMP 65°SHIPMENT VIA: FED-X Y HAND DELIVER — COURIER — OTHER —SHIPPED TO: PaganCOMMENTS: —SAMPLER: M. Sauer OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTA03		Site: NTS AOC 2								
Well Crew: M. Wilson, J. Johnson		Date: 12/22/97								
Well Depth (ft.): 28.0		Initial D.O. Profile:								
DTW (ft.)	20.14	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 18-20										
Well Diameter (in.)	2"									
Placement of Pump (ft.)	23.0'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1041	20.20	-	-	7.03	18.7	6.63563	235.7	3.25	428	sl. cloudy
1051	20.18		1.0	7.16	21.9	0.557	222.5	3.42	296	" "
1101	20.19		2.0	7.17	23.5	.551	194.2	3.13	137	cloudy
1106	20.17		2.2	7.20	23.9	.561	191.4	2.80	117	"
1115	20.17		3.3	7.20	23.4	.607	194.0	2.59	224	sl. cloudy
1123	20.17		3.8	7.19	23.7	.517	196.6	2.93	262	sl. cloudy
1136	20.17		4.6	7.16	25.0	.599	221.1	2.72	201	sl. cloudy
1146	20.15		5.0	7.19	21.8	.574	201.3	2.90	174	sl. cloudy
1151	20.17		5.2	8.20	22.2	.571	204.7	2.59	130	clear
1156	20.17		5.4	7.21	21.9	.581	207.1	2.66	127	clear
1201	20.17		5.7	7.21	21.9	.587	206.5	2.70	121	"
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:										
Notes:										
Sample Date/Time: 12/22/97 / 1705										
Signed/Sampler: M. W.										

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FIELD SAMPLING REPORT

LOCATION: WCHM4TR03PROJECT: 138.681SITE: NAS Hwy 7

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA099SAMPLING METHOD SPDUP./REP. OF: —BEGINNING DEPTH 23MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (✓)END DEPTH 23

GRAB (✓) COMPOSITE ()

DATE: 12/22/97 TIME: 1205

CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>B</u>	COLOR: <u>Clear</u>	
2nd <u>B</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR R OVERCAST/RAIN — WIND DIRECTION — AMBIENT TEMP 55°SHIPMENT VIA: FED-X 1 HAND DELIVER — COURIER — OTHER —SHIPPED TO: ParagonCOMMENTS: —SAMPLER: M. L. M. OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=WABWIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTH04		Site: NAS AOC7								
Crew: M. Wilson / J. Johnson		Date: 12/22/97								
Well Depth (ft.):	<u>20.36'</u>	Initial D.O. Profile:								
DTW (ft.)	<u>38.0'</u>	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	<u>28.0 - 38.0'</u>									
Well Diameter (in.)	<u>2"</u>									
Placement of Pump (ft.)	<u>31'</u>									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) ms/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0819	20.44	-	-	6.77	18.3	.574	226.3	2.63	522	sl. cloudy
0824	20.39		0.3	7.09	18.8	.577	234.0	2.46	565	" "
0834	20.40		0.9	7.10	19.8	.602	251.8	2.26	599	+ +
0844	20.40		1.4	7.09	20.4	.611	260.9	2.19	553	" "
0854	20.40		2.0	7.07	21.5	.618	263.0	2.06	442	clear
0904	20.40		2.5	7.07	21.9	.621	264.4	1.91	298	"
0914	20.40		3.0	7.06	21.7	.625	264.4	1.84	223	"
0924	20.40		3.3	7.07	21.3	.631	261.2	1.76	155	"
0934	20.40		3.7	7.04	21.6	.636	261.0	1.73	115	clear
0944	20.40		4.2	7.02	21.6	.653	254.1	1.69	88	"
0954	20.40		4.8	7.00	20.9	.661	254.3	1.61	68	"
1004	20.40		5.2	7.01	21.0	.661	253.4	1.56	53	"
1009	20.40		5.5	7.01	20.9	.661	252.9	1.54	50	"
1014	20.40		5.8	7.00	21.2	.658	253.6	1.55	46	"
1019	20.40		6.0	7.00	21.3	.656	252.7	1.53	44	"
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:										
Notes:	9.7 ppm									
Sample Date/Time: 12/22/97 / 1025										
Signed/Sampler: M. Wilson										

FIELD SAMPLING REPORT

LOCATION: <u>WCHMH7A04</u>	PROJECT: <u>138601.AZ.04</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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16523340

Figure 1: Well Sampling Field Data Sheet

Well Number: <u>6X HMF TAOS</u>		Site: <u>NAS ROC</u>									
Well Crew: <u>M. Wilson, J. Johnson</u>		Date: <u>12/22/97</u>									
Well Depth (ft.):	<u>26</u>	Initial D.O. Profile:									
DTW (ft.)	<u>16.98</u>	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	<u>16'-26'</u>										
Well Diameter (in.)	<u>2"</u>										
Placement of Pump (ft.)	<u>20'</u>										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. ($\mu\text{mhos/cm}$) <u>mS/cm</u>	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1308	17.04	~	~	6.85	19.9	18484	198.0	3.55	150	clear	
1313	17.03		0.5	7.08	19.8	1485	196.2	3.32	90	"	
1318	17.02		0.9	7.08	19.4	1498	197.6	3.92	78	"	
1323	17.02		1.1	7.11	20.5	1495	219.4	3.89	61	"	
1328	17.02		1.3	7.09	21.8	1486	217.9	3.67	56	"	
1333	17.02		1.5	7.09	20.5	1466	237.1	3.79	36	"	
1338	17.02		1.8	7.11	21.4	1457	231.2	3.95	33	"	
1343	17.02		2.0	7.16	21.9	1464	230.7	3.85	30	"	
<i>W.W.</i>											
Observations											
Color: <u>Clear</u>	Other (describe):										
Odor: <u>None</u>	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters:											
Notes: <u>9 ppm</u>											

652 341

FIELD SAMPLING REPORT

LOCATION: WCHMH TAOSPROJECT: 138601.AZ.04SITE: NAS AOC 7

SAMPLE INFORMATION

MATRIX WCSAMPLE ID: AITA/01SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 20MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)END DEPTH 26

GRAB (Y) COMPOSITE ()

DATE: 12/22/97 TIME: 1345

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>8</u>	COLOR <u>Clear</u>	
2nd <u>8</u>	ODOR <u>None</u>	
	OTHER.	

GENERAL INFORMATION

WEATHER: SUN/CLEAR Y OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 60°SHIPMENT VIA. FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Pargas or

COMMENTS: _____

SAMPLER: M. M. OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWABWIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHNMHTQ06 Crew: M. Wilson, J. Johnson		Site: N.A.S. Acc 2 Date: 12/22/97								
Well Depth (ft.): DTW (ft.) Depth of screen (ft.): Well Diameter (in.) Placement of Pump (ft.)	36' 16.81 26.36 7 1/2' 29'	Initial D.O. Profile:								
D.O. (mg/l)	Depth to water (ft.)									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1403	16.82	—	—	7.08	20.7	1,557	204.4	3.48	>1000	cloudy
1413	16.82		1.1	7.13	22.1	.562	208.6	3.47	845	-
1423	16.82		2.2	7.12	23.0	1,558	206.5	3.34	282	cloudy
1433	16.82		3.0	7.14	23.3	1,557	199.3	2.99	288	"
1443	16.82		3.8	7.11	23.4	1,556	211.9	2.82	121	"
1453	16.82		4.7	7.09	23.2	.557	206.4	2.77	83	cloudy
1458	16.82		5.0	7.07	23.4	1,555	207.5	2.76	70	-
1503	16.82		5.5	7.07	23.1	1,558	203.6	2.90	65	"
08	16.82		6.0	7.06	23.4	1,557	204.3	2.94	64	"
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:										
Notes:	Open									
Sample Date/Time: 12/22/97 / 1510										
Signed/Sampler: M. Wilson										

652 343

FIELD SAMPLING REPORT

LOCATION: <u>WCHM HTA06</u>	PROJECT: <u>B86 81 A7.04</u>																																												
SITE: _____																																													
SAMPLE INFORMATION																																													
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA107</u>																																												
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																												
BEGINNING DEPTH <u>29'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE																																												
END DEPTH <u>29'</u>	YES ()	NO ()																																											
GRAB () COMPOSITE ()	DATE: <u>12/22/97</u> TIME: <u>50° 1510</u>																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CONTAINER</th> <th style="text-align: left; padding: 2px;">PRESERVATIVE/</th> <th style="text-align: left; padding: 2px;">EXTRACTION</th> <th style="text-align: left; padding: 2px;">ANALYTICAL</th> <th rowspan="2" style="text-align: center; vertical-align: middle; padding: 2px;">ANALYSIS</th> </tr> <tr> <th style="text-align: left; padding: 2px;">SIZE/TYPE</th> <th style="text-align: left; padding: 2px;">PREPARATION</th> <th style="text-align: left; padding: 2px;">METHOD</th> <th style="text-align: left; padding: 2px;">METHOD</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/	EXTRACTION	ANALYTICAL	ANALYSIS	SIZE/TYPE	PREPARATION	METHOD	METHOD																																			
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NOTABLE OBSERVATIONS																																													
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																											
1st <u>8</u>	COLOR: <u>Clear</u>																																												
2nd <u>8</u>	ODOR <u>None</u>																																												
	OTHER: _____																																												
GENERAL INFORMATION																																													
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>60°</u>																																										
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																										
SHIPPED TO: <u>Paragon</u>																																													
COMMENTS: _____																																													
SAMPLER: <u>M. W.</u>	OBSERVER: _____																																												
MATRIX TYPE CODES		SAMPLING METHOD CODES																																											
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																										

652 344

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTH007	Site: NTS AOC 2										
Crew: M. Wilson	Date: 12/19/97										
Well Depth (ft.): 32.5'	Initial D.O. Profile:										
DTW (ft.) 14.46	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 17.5 - 32.5											
Well Diameter (in.) 2"											
Placement of Pump (ft.) 30'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0835	14.48	-	-	6.64	21.4	1747	186.0	9.20	>1000	cloudy	
0840	14.50	-	0.6	6.84	21.6	1756	156.8	7.01	>1000	"	
0845	14.48		1.0	6.92	22.1	1715	181.9	6.54	>1000	"	
0850	14.48		1.5	6.96	22.4	1687	204.0	5.91	>1000	"	
0855	14.48		1.9	6.98	23.0	1662	214.1	5.28	938	"	
0900	14.48		2.2	6.98	23.3	1651	216.3	5.58	719	sl. cloudy	
0905	14.48		2.6	6.98	23.5	1653	207.2	5.58	571	" "	
0910	14.48		2.9	6.97	23.7	1660	197.9	5.38	377	clear	
0915	14.48		3.2	6.96	23.8	1670	189.5	5.11	301	"	
0920	14.48		3.5	6.95	23.8	1677	187.1	4.89	214	"	
0925	14.48		3.8	6.95	23.9	1683	183.9	4.86	123	"	
0930	14.48		4.0	6.94	23.9	1690	186.7	4.74	93	"	
0935	14.48		4.3	6.93	23.9	1696	185.1	4.83	31	Clear	
0940	14.48		4.8	6.93	24.0	1700	187.1	5.56	5	"	
0945	14.48		5.1	6.92	24.0	1703	186.7	4.96	4	"	
0950	14.48		5.4	6.92	24.0	1707	186.3	4.60	5	"	
Observations											
Color: Clear	Other (describe):										
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters:											
Notes: 0 ppm											
* DO on Spectrophotometer reading 13.0 Initial											
* " " " 14.3 @ 0.6g/l											
Sample Date/Time: 12/19/97 /0955											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: WCHM#TA07PROJECT: 138681A2.1ZSITE: NAS AOC

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA093SAMPLING METHOD SPDUP./REP. OF: —BEGINNING DEPTH 30'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 30'YES () NO NOGRAB Y COMPOSITE ()DATE: 12/19/97 TIME: 0955

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>g</u>	COLOR: <u>Clean</u>	
2nd <u>g</u>	ODOR <u>None</u>	
	OTHER	

GENERAL INFORMATION

WEATHER: SUN/CLEAR F OVERCAST/RAIN — WIND DIRECTION — AMBIENT TEMP 50°SHIPMENT VIA: FED-X X HAND DELIVER — COURIER — OTHER —SHIPPED TO: TaylorCOMMENTS: —SAMPLER m. m. OBSERVER: —

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUN WATER	SL=SLUDGE
LH=HAZARDOUS LIQUID WASTE	SO=SOIL
SH=HAZARDOUS SOLID WASTE	GS=SOIL GAS
SE=SEDIMENT	WS=SURFACE WATER
	SW=SWAB\WIPE
	G=GRAB
	BR=BRASS RING
	CS=COMPOSITE SAMPLE
	C=CONTINUOUS FLIGHT AUGER
	DT=DRIVEN TUBE
	W=SWAB\WIPE
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

1652 346

Figure 1: Well Sampling Field Data Sheet

Well Number: WRHMHTAO8 (AHA076)		Site: NAS AOCZ								
Crew: M. Wilson, C Fitzgerald		Date: 12/17/97								
Well Depth (ft.):	25.0'	Initial D.O. Profile:								
DTW (ft.)	13.45	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.)	2"									
Placement of Pump (ft.)	18.0'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1055	13.55	—	—	6.93	18.4	2.26	-36.7	0.44	562	sl. cloudy
1100	13.54		0.2	6.93	18.7	2.16	-76.6	0.78	465	" "
1105	13.54		0.5	6.93	18.9	2.15	-77.6	0.63	427	" "
1110	13.53		0.8	6.93	19.0	2.15	-73.5	0.91	347	" "
1115	13.49		0.9	6.93	19.6	2.13	-78.1	0.74	343	" "
1120	13.51		1.0	6.92	19.6	2.14	-76.5	0.70	307	" "
1125	13.53		1.1	6.97	19.6	2.14	-78.0	0.90	289	" "
1130	13.54		1.2	6.91	20.0	2.12	-78.4	0.84	274	" "
Observations										
Color:	Clear	Other (describe): Sl. Cloudy								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: VOC, NT parameters for HGL										
Notes: 46 ppm = ovm										
AHA076										
Sample Date/Time: 12/17/97 / 1145										
Signed/Sampler: M. Wilson										

FIELD SAMPLING REPORT

LOCATION: WCHMHTAOBPROJECT: 138681 A2 12SITE: NAS AOC 2

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHD 076SAMPLING METHOD SP

DUP/REP. OF: _____

BEGINNING DEPTH 18'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 18'YES () NO (X)GRAB N COMPOSITE ()DATE: 12/17/97 TIME: 1145

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>46</u>	COLOR: <u>SI. Cloudy</u>	
2nd <u>-</u>	ODOR: <u>Odor Slight</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 60°SHIPMENT VIA. FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS _____

SAMPLER: M.W. OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

1652348

Well Number: WCHMHTA009		Site: NAS Fort Worth JRB									
Crew: K. Swanson, M. Phillips		Date: 12/22/97									
Well Depth (ft.):	12	Initial D.O. Profile:									
DTW (ft.)	12.54	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	4.5 - 12										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	9'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (µhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0937	6.54			6.61	19.9	0.643	205.1	0.47	164	sl. cloudy	
0940	6.54		0.3	6.61	19.9	0.643	205.1	0.47	164	sl. cloudy	
0945	6.55		0.7	6.93	20.6	0.666	130.1	0.39	105	clear	
0950	6.55		1.0	6.55	22.4	0.670	80.2	0.36	69	clear	
0955	6.55	-	1.3	6.94	23.4	0.692	40.1	0.32	51	clear	
1000	6.55		1.7	6.94	24.3	0.702	46.3	0.31	35	clear	
1005	6.55		2.0	6.90	25.5	0.706	74.7	0.28	62	clear	
1010	6.55		2.6	6.91	24.4	0.715	43.1	0.31	33	clear	
1015	6.55		3.0	6.92	24.4	0.711	42.4	0.14	23	clear	
1020	6.55		3.3	6.92	24.7	0.717	52.5	0.14	18	clear	
1025	6.55		3.9	6.92	24.8	0.715	80.1	0.15	15	clear	
1030	6.55		4.4	6.92	24.4	0.716	89.5	0.15	17	clear	
1035	6.55		4.9	6.91	24.9	0.719	72.6	0.15	15	clear	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: OVM = 0											
*flushed out flow-cell prior to taking reading											
Sample Date/Time: 12/22/97 / 1040											
Signed/Sampler: K. Swanson / M. Phillips											

FIELD SAMPLING REPORT

LOCATION: WCHM HTA009PROJECT: AOCZ REISITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AAA103SAMPLING METHOD low-flow/SPDUP./REP. OF: —

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO X

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 12/22/97 TIME: 1040

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
VOCs	3			8260	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0 ppm</u>	COLOR: <u>clear</u>	
2nd <u>0.0 ppm</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN WIND DIRECTION AMBIENT TEMP SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: K. Swartz

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

1.652, 3.50

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTADIO (AHA077)	Site: NAS Fort Worth JRB
Field Crew: M. Phillips, K. Swanson	Date: 12/17/97
Well Depth (ft.): 24.18	Initial D.O. Profile:
DTW (ft.) 6.35	D.O. (mg/l)
Depth of screen (ft.): 14-24	Depth to water (ft.)
Well Diameter (in.) 2"	
Placement of Pump (ft.) 15'	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1248	6.35	KES 21	0.1	6.92	29.4	1.24	112.2	0.83	655	cloudy
1252	6.41		0.1	6.95	24.9	1.22	80.6	0.55	652	"
1257	6.40		0.7	6.97	25.9	1.23	40.6	0.54	400	"
1302	6.41		1.3	6.97	25.9	1.23	19.5	0.54	160	clearing
1310	6.41		2.0	6.98	26.7	1.22	31.2	0.45	153	"
1315	6.38		2.2	6.99	27.0	1.21	26.9	0.53	158	"
1320	6.37		2.5	7.01	26.4	1.22	6.7	0.50	177	"
1330	6.35		2.6	7.02	25.1	1.21	9.6	0.45	168	"
1335	6.35		2.8	7.02	25.1	1.21	3.5	0.42	180	clear
140	6.35		3.0	7.01	25.1	1.21	11.9	0.43	185	clear
1345	6.35		3.1	7.01	25.9	1.21	18.9	0.49	190	clear
1350	6.35		3.2	7.02	26.2	1.20	32.2	0.47	194	clear
1355	6.35		3.3	7.02	26.3	1.20	18.5	0.45	200	clear
1400	6.41		3.8	6.97	30.2	1.23	8.8	0.45	54	clear
1407	6.41		4.5	6.92	29.0	1.24	4.6	0.29	32	clear
1412	6.41		5.3	6.95	28.3	1.24	4.5	0.19	15	clear
1417	6.40		5.7	6.95	28.0	1.24	2.1	0.14	17	clear
1422	6.45		6.2	6.96	27.8	1.24				

Observations

Color: Clear Other (describe):Odor: None Low Medium High Very Strong H2S Fuel-Like

Sample Parameters: VOCs, NA parameters for HGL

Notes: OVM = 11.8 ppm

Turbidity seemed to be reading high, cleaned tip and turbidity reading dropped

Sample Date/Time: 12/17/97 / 1424

Signed/Sampler: KE Swanson, M. Phillips

FIELD SAMPLING REPORT

LOCATION: WCHMHTAOIOPROJECT: NAS FO AOCZ PFISITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA077SAMPLING METHOD low-flow/SPDUP./REP. OF: —

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO X

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 12/17/97 TIME: 1428

CM 2 M

HGL

HGL

HGL

CAT

HGL

Alk, Anions

PAH

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
VOLs				
TPH				
PAH				
CAT				
Alk, Anions				
PAH				

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>11.8 ppm</u>	COLOR: <u>clear</u>	
2nd <u>n/a ppm</u>	ODOR: <u>none</u>	
	OTHER.	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN WIND DIRECTION AMBIENT TEMP SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER SHIPPED TO: VOLs to Paragon Analytics, remaining samples to HGL's lab - QuantumCOMMENTS: SAMPLER: M. PhillipsOBSERVER: K. Swanson

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUNd WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWAB/WIPE

SAMPLING METHOD CODES

B=BAILER
 BR=BRASS RING
 CS=COMPOSITE SAMPLE
 C=CONTINUOUS FLIGHT AUGER
 DT=DRIVEN TUBE
 W=SWAB/WIPE

G=GRAB
 HA=HAND AUGER
 H=HOLLOW STEM AUGER
 HP=HYDRO PUNCH
 SS=SPLIT SPOON
 SP=SUBMERSIBLE PUMP

16525352

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTA011 (AHA078)		Site: NAS Fort Worth JRB / ADC2 RFI								
Crew: M. Phillips, K. Swanson		Date: 12/17/97								
Well Depth (ft.): 22.01		Initial D.O. Profile:								
DTW (ft.) 12.34		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 12 - 22										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 14'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (mhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0922	12.34			6.80	21.8	0.894	210.1	0.7	112	Slightly cloud
0924	12.34		0.1	6.80	21.8	0.894	210.1	0.7	112	Slightly cloud
0929	12.34		0.7	6.90	22.7	0.760	107.5	123	" "	
0934	12.34		1.0	6.84	24.5	0.869	35.2	92	" "	
0939	12.35		1.6	6.84	25.6	0.879	26.8 ^{10.8} mS	87	" "	
0944	12.35		2.0	6.85	26.1	0.889	11.1	58	clear	
0949	12.35		2.5	6.85	26.7	0.896	4.7	44	clear	
0954	12.35		2.9	6.85	27.2	0.898	42.8	39	clear	
0959	12.35		3.3	6.86	26.9	0.895	51.5	38	clear	
1004	12.35		3.7	6.85	27.7	0.909	29.1	34	clear	
1009	12.35		4.5	6.85	27.5	0.919	99.9	30	clear	
1014	12.35		5.0	6.85	27.8	0.913	49.8	41	clear	
1019	12.35		5.8	6.85	27.9	0.923	-9.2	41	clear	
1024	12.35		6.2	6.85	27.7	0.936	8.8	33	clear	
1029	12.35		6.4	6.84	27.7	0.928	38.2	32	clear	
1034	12.35		6.7	6.86	27.8	0.933	11.6	36	clear	
1039	12.35		7.2	6.85	28.0	0.933	6.1	37	clear	
1044	12.35		7.6	6.86	27.9	0.939	29.0	32	clear	
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: Vols, NA parameters for HGL										
Notes: OVM = 0.0 ppm										
# DO readings collected via HACH method 8166										
Sample Date/Time: 12/17/97 / 1048										
Signed/Sampler: K.E. Swanson / M. Phillips										

FIELD SAMPLING REPORT

LOCATION: WCHMHTAOIIPROJECT: AOC 2 RFISITE: NAS FORT WORTH JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHAO 78SAMPLING METHOD low-flowDUP./REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO NO

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 12/17/97 TIME: 1048CH2M
HGL
HGL
HGL
HGL
HGL

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
VOCS				8260	8260 VES
PAH				8310	
Alk. Aromas				810.1/9056	
CH4				PSK-175	
TPH					
Fe2+				HACH BMG	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0.0 ppm</u>	COLOR: <u>clear</u>	
2nd <u>0.0 ppm</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: VOCS to Paragon / remaining samples to HGL's lab

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB		
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP		

Figure 1: Well Sampling Field Data Sheet

Well Number:	WCHM HTA012		Site: NAS Fort Worth JRB / Acc2 RF/								
Crew:	K. Swanson, M. Phillips		Date: 12/16/97								
Well Depth (ft.):	18.5		Initial D.O. Profile:								
DTW (ft.)	13.70		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	8.5 - 18.5										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	15'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0900	13.70							*	*		
0907	13.72		0.8	6.67	23.1	1.19	320	2.38	*		
0922	13.80		3.9	6.69	26.6	1.16	16.9	-	*		
HORIBA # 3645 turb & DO not functioning, return to contractor house, re-cal turbidity & retrieve HACH DO Kit. Will take an initial & final reading for DO											
1124	13.72		4.5	6.75	23.2	1.44	-7.2	0.7	103	Slight浑浊 (sl.)	
11:30	13.74		4.6	6.76	23.7	1.42	-50.7	90	clearing		
11:35	13.71		4.8	6.75	26.3	1.41	-53.7	61	clearing		
11:40	13.71		5.0	6.75	27.0	1.40	-53.4	50	clear		
1150	13.71		6.0	6.76	28.0	1.40	-57.0	51	clear		
1155	13.71		6.1	6.76	28.1	1.42	-58.5	0.4	54	clear	
Observations											
Color:	<input checked="" type="radio"/> Clear	Other (describe):									
Odor:	<input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: OVM = 0.0 ppm											
Took initial & final DO readings using HACH spectrophotometer, method 8166											
Sample Date/Time: 12/16/97 / 1155											
Signed/Sampler: K. Swanson / M. Phillips											

FIELD SAMPLING REPORT

LOCATION: WC4MUTA01ZPROJECT: 138681.A2.12 / AOC2 R01SITE: NAS FORT WORTH JRS

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AHA063SAMPLING METHOD low-flow/SPDUP./REP. OF: -BEGINNING DEPTH 13.70MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO XEND DEPTH 18.5

GRAB () COMPOSITE ()

DATE: 12/16/97 TIME: 1158

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
VOC	3			
TOL	1			
Alk, Alkan	1			
CH ₄	3			
Fe ²⁺	3			
Cations	1			

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st O.O	COLOR: <u>clear</u>	
2nd O.O	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN WIND DIRECTION AMBIENT TEMP SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER SHIPPED TO: Paragon Analytics / CH2M HILL AOC → CWI onlyCOMMENTS: SAMPLER: M. Phillips OBSERVER: K. Swanson

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUND WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWAB/WIPE

SAMPLING METHOD CODES

B=BAILER	G=GRAB
BR=BRASS RING	HA=HAND AUGER
CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
DT=DRIVEN TUBE	SS=SPLIT SPOON
W=SWAB/WIPE	SP=SUBMERISIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTA013		Site: NAS Fort Worth JRB								
Crew: K. Swanson, M. Phillips		Date: 12/18/97								
Well Depth (ft.): 18.81		Initial D.O. Profile:								
DTW (ft.) 16.98		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 18'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (µmhos/cm) ms	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1139	16.98									Attempted to pump well, water level would drop below pump intake before purge water reached flow cell. Pulled pump & will bail well.
1308	17.45	0.1	6.60	22.4	3.28	168.9	2.77	40		clear
1311	17.95	0.8	6.62	21.6	3.26	175.9	1.75	7		clear
1316	18.43	1.3	6.65	21.6	3.20	150.2	2.02	3		clear*
1326	18.12	1.8	6.68	21.7	3.21	125.1	2.13	5		clear
1332	18.32	2.1	6.64	21.4	3.06	115.9	2.23	9		clear
Observations										
Color: <input checked="" type="checkbox"/> Clear	Other (describe):									
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOC										
Notes: OVM = 0.20 ppm 1 vol = 0.29, bailed over 7 well volumes * allowed 10 minutes to recover, the o level had dropped to 18.60 after reading										
Sample Date/Time: 12/18/97 / 1335										
Signed/Sampler: K.S. Swanson / M. Phillips										

FIELD SAMPLING REPORT

LOCATION: WITC TA016

PROJECT: 130601.A2.04

SITE: NAS Act 2

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: AHA

SAMPLING METHOD SP

DUP./REP. OF: -

BEGINNING DEPTH 24'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 24'

YES () NO (X)

GRAB () COMPOSITE ()

DATE: 12/22/97 TIME: 1705

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0	COLOR Clear	
2nd 0	ODOR. None	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST RAIN WIND DIRECTION _____ AMBIENT TEMP 55°SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Pearson

COMMENTS: _____

SAMPLER: M. W. OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWABWIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

FIELD SAMPLING REPORT

LOCATION: <u>WCHMHTA014</u>	PROJECT: <u>NOCL RPT</u>																																																		
SITE: <u>NAS Fort Worth JRB</u>																																																			
SAMPLE INFORMATION																																																			
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA106</u>																																																		
SAMPLING METHOD <u>bailey</u>	DUP./REP. OF: <u>-</u>																																																		
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>																																																		
END DEPTH _____																																																			
GRAB () COMPOSITE ()	DATE: <u>12/22/97</u> TIME: <u>1108</u>																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>VOCs</td><td>3</td><td></td><td>8260</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#				VOCs	3		8260																																				
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																															
SIZE/TYPE	#																																																		
VOCs	3		8260																																																
NOTABLE OBSERVATIONS																																																			
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																																	
1st <u>0</u>	COLOR: <u>sl. cloudy</u>																																																		
2nd <u>0</u>	ODOR: <u>none</u>																																																		
	OTHER:																																																		
GENERAL INFORMATION																																																			
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																																
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																																
SHIPPED TO: _____																																																			
COMMENTS: _____																																																			
SAMPLER: <u>M. Phillips/K. Swanson</u>		OBSERVER: _____																																																	
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																	
DC=DRILL CUTTINGS WG=GROUNDS WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BAILEY BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																																

652 360

Figure 1: Well Sampling Field Data Sheet

Well Number: WITCTA010	Site: NAS Fort Worth JRB	
Field Crew: L.Sorenson, M.Phillip	Date: 12/23/97	
Well Depth (ft.): 18.9		Initial D.O. Profile:
DTW (ft.) 14.11	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.): 11.4 - 18.9		
Well Diameter (in.) 2"		
Placement of Pump (ft.) 15.5		

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0932	14.11									
0935	14.11		0.5	6.85	19.4	0.569	-42.8	0.24	111	cloudy
0940	14.12		1.2	6.87	22.4	0.569	-59.8	0.20	111	" "
0945	14.12		1.9	6.87	23.3	0.566	-59.1	0.24	373	clear
0950	14.12		2.1	6.87	25.2	0.574	-68.1	0.05	243	"
0955	14.12		2.4	6.87	24.3	0.574	-62.2	0.03	196	"
1000	14.12		2.7	6.87	23.2	0.571	-69.2	0.11	107	"
1010	14.11		3.0	6.87	24.4	0.565	-68.9	0.20	159	"
1015	14.11		3.1	6.88	26.0	0.567	-75.3	0.04	287	cloudy
1020	14.11		3.3	6.89	24.2	0.564	-74.1	0.14	351	"
1025	14.11		4.0	6.90	25.5	0.548	-61.7	0.60	289	decreasing
1035	14.12		4.3	6.90	25.7	0.557	-65.4	0.50 ^{0.05} 434	144	cloudy
1040	14.12		4.6	6.90	26.3	0.564	-78.5	0.02	414	"
1045	14.12		4.9	6.88	26.4	0.569	-71.1	0.02	397	"
1055	14.12		5.5	6.88	25.4	0.567	-63.4	0.05	125	clear
1100	14.11		5.8	6.90	24.9	0.567	-63.8	0.01	110	clear
1105	14.12		6.1	6.90	25.5	0.569	-72.5	0.05	110	clear

Observations

Color: <input checked="" type="checkbox"/> Clear	Other (describe): _____
Odor: <input checked="" type="checkbox"/> None	Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes: OVM = 0.0 ppm

Raining heavily throughout purge

Sample Date/Time: 12/23/97 / 11:00

Signed/Sampler: L.E.Sorenson / M. Phillips

FIELD SAMPLING REPORT

LOCATION: <u>WITCTA010</u>	PROJECT: <u>Aoc 2 RF1</u>																																																
SITE: <u>NAS Fort Worth SRB</u>																																																	
SAMPLE INFORMATION																																																	
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA057</u>																																																
SAMPLING METHOD <u>low-flow</u>	DUP./REP. OF: <u>-</u>																																																
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																																
END DEPTH _____																																																	
GRAB () COMPOSITE ()	DATE: <u>12/23/97</u> TIME: <u>1110</u>																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">CONTAINER</th> <th>PRESERVATIVE/</th> <th>EXTRACTION</th> <th>ANALYTICAL</th> <th>ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <th>PREPARATION</th> <th>METHOD</th> <th>METHOD</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>VOLCS</td> <td>3</td> <td></td> <td></td> <td><u>8260</u></td> <td></td> </tr> <tr> <td>CHA</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1E, 2E</td> <td>3</td> <td></td> <td></td> <td><u>HAIW 8146</u></td> <td></td> </tr> <tr> <td>CARTONS</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TDC</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>All, Arrows</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		CONTAINER		PRESERVATIVE/	EXTRACTION	ANALYTICAL	ANALYSIS	SIZE/TYPE	#	PREPARATION	METHOD	METHOD	-	VOLCS	3			<u>8260</u>		CHA	3					1E, 2E	3			<u>HAIW 8146</u>		CARTONS	1					TDC	1					All, Arrows	1				
CONTAINER		PRESERVATIVE/	EXTRACTION	ANALYTICAL	ANALYSIS																																												
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1st	COLOR:																																																
2nd	ODOR <u>none</u>																																																
	OTHER:																																																
GENERAL INFORMATION																																																	
WEATHER: SUN/CLEAR	OVERCAST/RAIN <input checked="" type="checkbox"/>	WIND DIRECTION	AMBIENT TEMP																																														
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER	COURIER	OTHER																																														
SHIPPED TO: <u>Paragon Analytics</u>																																																	
COMMENTS: _____																																																	
SAMPLER: <u>M Phillips</u>	OBSERVER: <u>K. Swanson</u>																																																
MATRIX TYPE CODES		SAMPLING METHOD CODES																																															
DC=DRILL CUTTINGS WG=GROUNDS WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																														

Figure 1: Well Sampling Field Data Sheet

Well Number: WITGA016		Site: NAS Forz									
Field Crew: M. Wilson, J. Johnson		Date: 12/22/97									
Well Depth (ft.):	27.62	Initial D.O. Profile:									
DTW (ft.)	18.53	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):											
Well Diameter (in.)	2"										
Placement of Pump (ft.)	24'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (mmhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1555	18.85	—	—	6.75	21.0	1,01	194.5	0.47	71000	Cloudy	
1610	18.85		1.9	6.84	24.2	1.10	154.0	0.38	"	"	
1620	18.84		3.0	6.83	24.8	1.12	125.0	0.29	772	"	
1630	18.84		3.9	6.84	24.5	1.12	116.5	0.19	399	Clearing	
1640	18.85		4.5	6.84	24.4	1.15	116.4	0.13	163	clear	
1645	18.84		5.1	6.84	25.0	1.02	120.5	0.19	144	"	
1650	18.84		5.8	6.84	24.5	1.01	125.4	0.17	69	"	
1655	18.84		6.4	6.84	24.5	1.01	124.6	0.11	65	"	
1700	18.84		6.8	6.84	24.6	1.02	123.9	0.10	64	"	
<i>M. Wilson</i>											
Observations											
Color:	<u>Clear</u>	Other (describe):									
Odor:	<u>None</u>	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: Open											
Sample Date/Time: 12/22/97 / 1705											
Signed/Sampler: M. Wilson											

TAB

February 1998

Figure 1: Well Sampling Field Data Sheet

.652-.364

Well Number: QMI-22-02M		Site: NAS Fort Worth SRS									
Field Crew: K. Swanson, C. Fitzgerald		Date: 2/23/98									
Depth (ft.):	18.5	Initial D.O. Profile:									
DTW (ft.)	8.80'	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	15-28.5										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	26										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1410	8.90						*				
1412	9.22		0.4	7.20	19.2	0.351		5.40	214	clear	
1415	8.79		0.7	7.21	19.5	0.352		4.47	170	"	
1420	8.86		1.51.1	7.20	20.1	0.351		4.53	158	"	
1425	8.70		1.3	7.11	20.2	0.351		4.23	131	"	
1430	8.95		1.7	7.07	20.4	0.354		4.73	132	"	
1435	8.90-9.00		2.0	7.09	21.0	0.355		4.34	134	"	
1440	7.05		2.2	7.09	21.5	0.356		4.93	136	"	
1445	7.00		2.9	7.11	21.3	0.358		7.90	140	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: DVU = 2 ppm ORP meter not functioning											
Sample Date/Time: 2/23/98 / 1445											
Signed/Sampler: K. Swanson / C. Fitzgerald											

652 365

FIELD SAMPLING REPORT

LOCATION: <u>GMI-22-02m</u>	PROJECT: <u>138681.A2.04</u>																																																												
SITE: <u>NAS for Water JRB</u>																																																													
SAMPLE INFORMATION																																																													
MATRIX <u>WG</u>	SAMPLE ID: <u>AIA030</u>																																																												
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>-</u>																																																												
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																																												
END DEPTH _____																																																													
GRAB () COMPOSITE ()	DATE: <u>2/23/98</u> TIME: <u>1445</u>																																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <td colspan="3"></td> <td></td> </tr> </thead> <tbody> <tr><td>40ml</td><td>3</td><td>HCl</td><td></td><td>8260</td><td>VOCs</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#					40ml	3	HCl		8260	VOCs																																										
CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																																								
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1st <u>2 ppm</u>	COLOR: <u>clear</u>																																																												
2nd <u>2 ppm</u>	ODOR: <u>none</u>																																																												
	OTHER:																																																												
GENERAL INFORMATION																																																													
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN <input type="checkbox"/>	WIND DIRECTION <input type="checkbox"/>	AMBIENT TEMP <u>70.1°</u>																																																										
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER <input type="checkbox"/>	COURIER <input type="checkbox"/>	OTHER <input type="checkbox"/>																																																										
SHIPPED TO: <u>Paragon Analytics</u>																																																													
COMMENTS: _____																																																													
SAMPLER: <u>C. Stegward</u>	OBSERVER: <u>K. Swanson</u>																																																												
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																											
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																																										

Figure 1: Well Sampling Field Data Sheet

Well Number:	GM-22-03		Site: NAS FORT WORTH JRCB								
Field Crew:	K. Swanson, C. Fitzgerald		Date: 2/19/98								
Depth (ft.):	32		Initial D.O. Profile:								
DTW (ft.)	20.40		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	12-32										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	27'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1551	20.41			6.55	20.2	0.96	83.8	0.33	272	cloudy	
1555	20.40		0.2	6.86	21.6	0.95	81.4	0.25	129	cloudy	
1600	20.42		1.0	6.86	21.6	0.95	81.1	0.25	65	clear	
1605	20.40		1.7	6.82	22.8	0.96	84.8	0.30	54	"	
1610	20.45		2.0	6.82	22.8	0.875	84.8	0.25	50	"	
1615	20.45		2.1	6.81	24.2	0.877	80.7	0.25	18	"	
1622	20.45		3.0	6.82	24.4	0.877	80.1	0.20	26	"	
1627	20.45		3.5	6.81	24.4	0.877	76.9	0.18	18	"	
1632	20.45		3.7	6.82	24.6	0.876	75.7	0.17	18	"	
1637	20.45		4.5	6.80	25.1	0.876	76.0	0.15	16		
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes: ODM = 0.0 ppm											
Sample Date/Time: 2/19/98 / 1648											
Signed/Sampler: K.S. Swanson / C. Fitzgerald											

FIELD SAMPLING REPORT

LOCATION: GMI-22-034PROJECT: 138641.AZ.04 (AOCCR1)SITE: NTS FORT WORTH VRD

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1A015SAMPLING METHOD SP

DUP/REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 2/19/98 TIME: 1640

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40 ml	3	HCl		8260	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <input checked="" type="checkbox"/>	COLOR: <u>clear</u>	
2nd <input checked="" type="checkbox"/>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR _____ OVERCAST/RAIN WIND DIRECTION _____ AMBIENT TEMP 55°FSHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Perryon Analytics, Inc

COMMENTS: _____

SAMPLER: C. Fitzgerald OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652-368

Well Number: GMI-22-044	Site: NAS Fort Worth JCB
Field Crew: K. Swanson, C. Fitzgerald	Date: 2/19/98
Depth (ft.): 23'	Initial D.O. Profile:
DTW (ft.) 19.48	D.O. (mg/l)
Depth of screen (ft.): 13 - 23'	Depth to water (ft.)
Well Diameter (in.) 2"	
Placement of Pump (ft.) 21	

Field Parameters

Observations

Color: Clear Other (describe):

Odor: None Low Medium High Very Strong H₂S Fuel-Like

Sample Parameters: V_{OC}

Notes:

Sample Date/Time: 2 / 19 / 98

Signed/Sampler: K.E.Puryear, C.Fitzgerald

652 369

FIELD SAMPLING REPORT

LOCATION: <u>GMI-22-04M</u>	PROJECT: <u>138681. A2.04 (AOXZBF)</u>			
SITE: <u>NAS Fort Worth JRB</u>				
SAMPLE INFORMATION				
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A014</u>			
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>-</u>			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>			
END DEPTH _____				
GRAB () COMPOSITE ()	DATE: <u>2/19/98</u> TIME: <u>1147</u>			
CONTAINER SIZE/TYPE #	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
<u>40 mL</u> <u>3</u>	<u>HCl</u>		<u>8260</u>	<u>Volatile</u>
NOTABLE OBSERVATIONS				
PID READINGS	SAMPLE CHARACTERISTICS			MISCELLANEOUS
1st	COLOR:			
2nd	ODOR:			
	OTHER:			
GENERAL INFORMATION				
WEATHER: SUN/CLEAR	OVERCAST/RAIN <input checked="" type="checkbox"/>	WIND DIRECTION	AMBIENT TEMP <u>~50°F</u>	
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER	COURIER	OTHER	
SHIPPED TO: <u>Paragon Analytics, Inc.</u>				
COMMENTS: _____				
SAMPLER: <u>C. Fitzgerald</u>	OBSERVER: <u>K. Swanson</u>			
MATRIX TYPE CODES		SAMPLING METHOD CODES		
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB	
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER	
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER	
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH	
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON	
		W=SWABWIPE	SP=SUBMERSIBLE PUMP	

Figure 1: Well Sampling Field Data Sheet

一一二

652 370

Well Number: GM1-22-05M		Site: NAS FN JRB									
Field Crew: C.Fitzgerald, L.Swanson		Date: 2/18/98									
Well Depth (ft.):	<u>463 ft. 13.82</u>		Initial D.O. Profile:								
DTW (ft)	<u>11.45</u>		D.O. (mg/l)								
Depth of screen (ft.):			Depth to water (ft.)								
Well Diameter (in.)	<u>2"</u>										
Placement of Pump (ft.)	<u>bottom 10.5 ft.</u>										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) ms	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1457	11.40										
1537	11.60		0.4	7.25	25.1	0.96	13.7	-3.13	181	cloudy	
1644	flow cut off							-2.			
1600	11.45		0.5	6.89	24.2	1.05	-5.6	0.75*	761	cloudy	
1606	11.45		0.8	6.90	25.1	1.09	8.3	0.45	841	"	
1611	11.45		1.0	6.91	24.6	1.10	11.0	0.44	772	"	
1616	11.43		1.1	6.90	23.9	1.07	8.1	0.44	582	"	
1622	11.40		1.2	6.89	24.6	1.09	4.0	0.36	476	"	
1627	11.40		1.3	6.89	25.7	1.08	-2.1	0.39	350	"	
1637	11.40		1.5	6.87	27.8	1.00	-8.0	0.45	200	clearing	
1639	flow cut off, check valve failed & H ₂ O backed back into well will let well recharge overnight & return 2/19 AM										
0854	11.40										
0906	11.80		0.2	7.12	16.3	1.06	221.3	-400*	379	cloudy	
09011	11.80		1.0	7.02	18.0	1.09	165.9	-5.37	240	"	
0916	11.90		1.9	7.05	18.7	1.12	54.0	-5.29	69	generators surged	
0923	11.94		2.5	7.04	18.8	1.13	7.9	5.59	41	clear	
0928	11.94		3.5	7.03	18.8	1.15	-9.4	-603	8	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H ₂ S	Fuel-Like				
Sample Parameters:											
Notes: * switched meters, DO functioning											
Sample Date/Time:											
Signed/Sampler:											

Figure 1: Well Sampling Field Data Sheet

FIELD SAMPLING REPORT

LOCATION: <u>GMI-22 - 05M</u>	PROJECT: <u>138681.A2.04 (Acc2RF1)</u>																																													
SITE: <u>NAS Fort Worth</u>																																														
SAMPLE INFORMATION																																														
MATRIX <u>W6</u>	SAMPLE ID: <u>A1A003</u>																																													
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																													
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>																																													
END DEPTH _____																																														
GRAB () COMPOSITE ()	DATE: <u>2/19/98</u> TIME: <u>0945</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CONTAINER</th> <th style="text-align: left; padding: 2px;">PRESERVATIVE/ PREPARATION</th> <th style="text-align: left; padding: 2px;">EXTRACTION METHOD</th> <th style="text-align: left; padding: 2px;">ANALYTICAL METHOD</th> <th style="text-align: left; padding: 2px;">ANALYSIS</th> </tr> <tr> <th style="text-align: left; padding: 2px;">SIZE/TYPe #</th> <th style="text-align: left; padding: 2px;"></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;"><u>40 ml</u></td> <td style="padding: 2px;"><u>3</u></td> <td style="padding: 2px;"><u>HCl</u></td> <td style="padding: 2px;"><u>8260</u></td> <td style="padding: 2px;"><u>matrix</u></td> </tr> <tr><td style="height: 10px;"></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPe #					<u>40 ml</u>	<u>3</u>	<u>HCl</u>	<u>8260</u>	<u>matrix</u>																														
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																												
1st <u>0</u>	COLOR: <u>clear</u>																																													
2nd <u>0</u>	ODOR: <u>wine</u>																																													
	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR _____ OVERCAST/RAIN <u>X</u> WIND DIRECTION _____ AMBIENT TEMP <u>55°F</u>																																														
SHIPMENT VIA: FED-X <u>X</u> HAND DELIVER _____ COURIER _____ OTHER _____																																														
SHIPPED TO: <u>Paragon Analytics</u>																																														
COMMENTS: _____																																														
SAMPLER: <u>c. Fitzgerald</u>	OBSERVER: <u>K. Swan</u>																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

16529373

Well Number: GMI-22-06M	Site: NAS Fort Worth JRB
Field Crew: K. Swanson, C. Fitzgerald	Date: 2/20/98
Depth (ft.): 23.5	Initial D.O. Profile:
DTW (ft.) 18.15	D.O. (mg/l)
Depth of screen (ft.): 13.5 - 23.5	Depth to water (ft.)
Well Diameter (in.) 2"	
Placement of Pump (ft.) 22'	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0825	18.25		0.3	6.65	20.1	1.15	208.5	0.50	618	cloudy
0826	18.40		0.9	6.94	20.5	1.14	177.2	0.34	282	cleaning
0830	18.25		1.7	6.94	23.6	1.19	179.7	0.48	66	flushed from clean only
0840	18.25		2.0	6.96	23.6	1.14	184.0	0.24	60	clear
0845	18.25		2.2	6.97	23.8	1.12	179.2	0.27	53	"
0850	18.25		2.5	6.96	24.4	1.13	183.8	0.29	26	"
0855	18.25		1.9	6.97	24.3	1.14	177.9	0.26	20	"
0900	18.25		3.0	6.96	24.1	1.14	173.0	0.29	21	"
0905	18.25		3.1	6.95	25.3	1.13	166.9	0.31	25	"
10	flow cut off, then surged									
0920	18.26	5.0	6.95	24.1	1.14	162.2	0.33	25	"	
0925	18.27	5.3	6.93	24.0	1.14	164.0	0.16	19	"	
0930	18.20	6.0	6.92	24.8	1.15	165.0	0.15	14	"	
0935	18.28	6.3	6.92	24.9	1.15	166.1	0.16	13	"	

Observations

Color: Clear	Other (describe):
Odor: None	Low Medium High Very Strong H2S Fuel-Like
Sample Parameters: VOCs	
Notes: OVM = 0	
Sample Date/Time: 2/20/98 / 0937 0937	
Signed/Sampler: K. Swanson	

FIELD SAMPLING REPORT

LOCATION: GM1-22-06MPROJECT: AOC2 RFISITE: NAS EW URB

SAMPLE INFORMATION

MATRIX W6SAMPLE ID: AIA013SAMPLING METHOD SPDUP./REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH _____

YES () NO (X)

GRAB () COMPOSITE ()

DATE: 2/10/98 TIME: 10937

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40	3	HCl		8260	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>g</u>	COLOR: <u>clear</u>	
2nd <u>g</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: C. Fitzgerald OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

11652-375

Well Number: GNT-22-07M		Site:								
Field Crew: M. Wilson, S. Finn		Date: 2/18/98								
Depth (ft.): 20.50		Initial D.O. Profile:								
DTW (ft.) 15.12		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 10.5 - 20.5										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 18										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) ms/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1308	15.80	—	—	6.82	21.5	.659	191.1	9.10	76	clear
1313	15.94		0.6	6.80	27.9	.647	131.0	3.74	179	"
1318	15.74		0.9	6.84	23.2	.646	101.2	3.53	164	Slightly cloudy
1323	15.57		1.1	6.85	23.3	.640	81.9	3.53	198	" "
1328	15.63		1.3	6.83	25.8	.641	76.5	3.57	336	Cloudy
1333	15.66		1.7	6.81	27.7	.645	68.7	3.25	409	"
1338	15.72		2.0	6.81	27.9	.643	84.6	3.00	469	"
1343	15.70		2.2	6.81	28.0	.645	94.9	3.12	509	"
1353	15.70		2.8	6.80	28.0	.645	85.3	2.61	381	Cloudy
1363	16.16		3.7	6.77	27.9	.636	106.6	3.10	304	"
1408	16.31		4.0	6.76	26.5	.630	97.0	2.93	193	"
1413	15.71		4.1	6.77	25.9	.600	110.9	2.81	186	"
1418	15.73		4.3	6.77	26.0	.597	123.1	3.06	182	"
1423	15.65		4.5	6.78	26.1	.596	128.7	2.75	177	clear
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:										
Notes: 0 ppm OUM										
Sample Date/Time: 2/18/98 / 1425										
Signed/Sampler: M. Wilson										

FIELD SAMPLING REPORT

LOCATION: <u>Gmt -22.07m</u>	PROJECT: <u>138681 HZ.09</u>																																			
SITE: _____																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AHA 009</u>																																			
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																			
BEGINNING DEPTH <u>18</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (✓)																																			
END DEPTH <u>18</u>																																				
GRAB (✓) COMPOSITE ()	DATE: <u>2/18/98</u> TIME: <u>1425</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>40ml</td><td>HCC</td><td></td><td></td><td>VOC</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	40ml	HCC			VOC																									
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																
40ml	HCC			VOC																																
NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>8</u>	COLOR:																																			
2nd <u>8</u>	ODOR:																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>60°</u>																																	
SHIPMENT VIA: FED-X <u>Y</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Parson</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>M. W.</u>	OBSERVER: _____																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB																																	
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER																																	
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER																																	
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH																																	
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON																																	
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

11652.377

Well Number: HM-96		Site: NTS AOC?								
Field Crew: M. Wilson / S. F. in		Date: 2/24/98								
Depth (ft.): DTW (ft.)	54 27.82	Initial D.O. Profile:								
Depth of screen (ft.):	24.54'	D.O. (mg/l)	Depth to water (ft.)							
Well Diameter (in.)	4"									
Placement of Pump (ft.)	45'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1347	27.82	—	—	7.03	27.4	0.609	85.7	2.75	11	Clean
1352	27.78	—	0.3	6.99	27.6	0.642	80.0	2.27	7	"
1357	27.77	—	0.5	6.97	27.8	0.681	74.6	2.14	7	"
1402	27.77	—	0.7	6.96	23.0	0.697	74.0	1.98	3	"
1407	27.77	—	1.0	6.95	22.9	0.703	77.0	0.54	8	"
<i>2/24/98</i>										
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOC									
Notes:	0 ppm									
Sample Date/Time: 2/24/98 1410										
Signed/Sampler: M. Wilson										

FIELD SAMPLING REPORT

LOCATION: HM-96
SITE: NAS AOC 7

PROJECT: 138681.AZ.04

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA043SAMPLING METHOD SPDUP/REP. OF: —BEGINNING DEPTH 45

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 45'

YES () NO (X)

GRAB (X) COMPOSITE ()

DATE: 2/24/98 TIME: 1410

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
40ml vial 13	HCl		8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: <u>Clear</u>	
2nd	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN — WIND DIRECTION S AMBIENT TEMP 73°SHIPMENT VIA: FED-X X HAND DELIVER — COURIER — OTHER —SHIPPED TO: PGregorCOMMENTS: —SAMPLER: M. C. OBSERVER: —

MATRIX TYPE CODES

DC=DRILL CUTTINGS
WG=GROUND WATER
LH=HAZARDOUS LIQUID WASTE
SH=HAZARDOUS SOLID WASTE
SE=SEDIMENT

SL=SLUDGE
SO=SOIL
GS=SOIL GAS
WS=SURFACE WATER
SW=SWAB/WIPE

SAMPLING METHOD CODES

B=BAILER
BR=BRASS RING
CS=COMPOSITE SAMPLE
C=CONTINUOUS FLIGHT AUGER
DT=DRIVEN TUBE
W=SWAB/WIPE

G=GRAB
HA=HAND AUGER
H=HOLLOW STEM AUGER
HP=HYDRO PUNCH
SS=SPLIT SPOON
SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

1-652-379

FIELD SAMPLING REPORT

LOCATION: <u>HM-116</u>	PROJECT: <u>158681. A2.09</u>																																													
SITE: <u>NAs Rec 7</u>																																														
SAMPLE INFORMATION																																														
MATRIX <u>WC</u>	SAMPLE ID: <u>AIA047</u>																																													
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u> </u>																																													
BEGINNING DEPTH <u>31</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>✓</u>																																													
END DEPTH <u>31</u>																																														
GRAB () COMPOSITE ()	DATE: <u>2/24/98</u> TIME: <u>325</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">CONTAINER</th> <th style="width: 20%;">PRESERVATIVE/ PREPARATION</th> <th style="width: 20%;">EXTRACTION METHOD</th> <th style="width: 20%;">ANALYTICAL METHOD</th> <th style="width: 20%;">ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><u>40mL/vial</u></td> <td><u>3</u></td> <td><u>HCC</u></td> <td><u>8260</u></td> <td><u>VOC</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#				<u>40mL/vial</u>	<u>3</u>	<u>HCC</u>	<u>8260</u>	<u>VOC</u>																														
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																										
SIZE/TYPE	#																																													
<u>40mL/vial</u>	<u>3</u>	<u>HCC</u>	<u>8260</u>	<u>VOC</u>																																										
NOTABLE OBSERVATIONS																																														
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																												
1st <u> </u>	COLOR: <u>clear</u>																																													
2nd <u> </u>	ODOR: <u>none</u>																																													
	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR <u>X</u> OVERCAST/RAIN <u> </u>	WIND DIRECTION <u>S</u>	AMBIENT TEMP <u>70°</u>																																												
SHIPMENT VIA: FED-X <u>X</u> HAND DELIVER <u> </u>	COURIER <u> </u>	OTHER <u> </u>																																												
SHIPPED TO: <u>Paragon</u>																																														
COMMENTS: <u> </u>																																														
SAMPLER: <u>M. L.</u>	OBSERVER: <u> </u>																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

146527381

Well Number:	HM-117		Site:	NAS Fort Worth SRB							
Field Crew:	K. Swanson		Date:	2/24/98							
Depth (ft.):	39.5		Initial D.O. Profile:								
DTW (ft.)	19.65		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	18.5 - 38.5										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	35"										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1615	19.70		0.1	6.39	22.4	0.817	179.7	1.90	12	clear	
1620	19.70		1.0	6.41	23.5	0.822	197.7	0.54	5	clear	
1625	19.70		1.8	6.51	23.8	0.817	200.3	0.53	3	"	
1630	19.70		2.0	6.50	24.1	0.813	203.5	0.32	3	"	
1635	19.70		2.7	6.51	24.2	0.807	205.1	0.35	2	"	
1640	19.70		3.2	6.51	24.3	0.804	208.4	0.30	1	"	
1645	19.70		4.0	6.51	24.3	0.800	211.4	0.33	1	"	
Observations											
Color:	Clear		Other (describe):								
Odor:	None		Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOCs										
Notes:	OM = 0										
Sample Date/Time:	2/24/98 / 1645										
Signed/Sampler:	K. Swanson / C. Fitzgerald										

FIELD SAMPLING REPORT

LOCATION: HM-117

PROJECT: 138681.AZ.09

SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: A1A644

SAMPLING METHOD SP

DUP/REP. OF: -

BEGINNING DEPTH

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH

GRAB () COMPOSITE ()

DATE: 2/24/98 TIME: 1645

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
48mL	3	HCl		8260	VOLs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0	COLOR: clear	
2nd 0	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP 75°

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: C. Etgerard OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: HM-118		Site: NAS Fort Worth JRB									
Field Crew: K. Swanson C. Fitzgerald		Date: 2/24/98									
Well Depth (ft.): 27		Initial D.O. Profile:									
DTW (ft.) 13.30		D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.): 6.2 - 26.2											
Well Diameter (in.) 4"											
Placement of Pump (ft.) 23'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1512	13.35		0.1	6.38	20.6	1.94	178.0	1.07	3	clear	
1517	13.35		1.1	6.36	21.5	1.94	195.8	0.30	2	"	
1522	13.35		1.3	6.36	22.2	1.95	204.9	0.57	3	"	
1527	13.33		1.8	6.36	22.7	1.94	219.8	0.30	1	"	
1532	13.35		2.0	6.38	23.3	1.93	221.2	0.33	2	"	
1537	13.35		2.2	6.38	23.4	1.92	223.8	0.28	1	"	
1542	13.35		2.5	6.37	23.4	1.91	224.8	0.38	1		
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VDCs											
Notes: OVM=0.0											
Sample Date/Time: 2/24/98 / 1545											
Signed/Sampler: K. Swanson / C. Fitzgerald											

FIELD SAMPLING REPORT

LOCATION: <u>HY-118</u>	PROJECT: <u>158681-AZ04</u>																																													
SITE: <u>NAS Fort Worth SPB</u>																																														
SAMPLE INFORMATION																																														
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A046</u>																																													
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																													
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																													
END DEPTH _____																																														
GRAB () COMPOSITE ()	DATE: <u>2/24/98</u> TIME: <u>1545</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">CONTAINER</th> <th style="width: 20%;">PRESERVATIVE/ PREPARATION</th> <th style="width: 20%;">EXTRACTION METHOD</th> <th style="width: 20%;">ANALYTICAL METHOD</th> <th style="width: 20%;">ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><u>40 ml</u></td> <td><u>3</u></td> <td><u>HCl</u></td> <td><u>8160</u></td> <td><u>VDCS</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#				<u>40 ml</u>	<u>3</u>	<u>HCl</u>	<u>8160</u>	<u>VDCS</u>																														
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																												
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2nd <u>0</u>	ODOR: <u>none</u>																																													
	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>75°F</u>																																											
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																											
SHIPPED TO: <u>Pavogen Analytics</u>																																														
COMMENTS: _____																																														
SAMPLER: <u>C. Fitzgerald</u>	OBSERVER: <u>K. Susan</u>																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

PFS 652, 385

Well Number:	AM-119		Site:	NAS Fort Worth JRS							
Field Crew:	K. Swanson, C. Fitzgerald		Date:	2/24/98							
Depth (ft.):	29'		Initial D.O. Profile:								
DTW (ft.)	11.60		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	9'-29'										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1402	11.63		0.5	6.40	19.7	0.813	166.4	1.92 ^{.08}	4	clear	
1407	11.62		1.2	6.33	20.2	0.844	173.5	0.43	1	"	
1412	11.62		1.9	6.32	20.5	0.828	170.8	0.29	0	"	
1417	11.68		2.2	6.29	20.8	0.826	166.1	0.32	1	"	
411	11.62		3.2	6.27	20.9	0.827	166.2	0.98	0	"	
1427	11.62		3.7	6.31	21.0	0.830	163.2	0.30	1	"	
1432	11.62		4.1	6.33	21.0	0.831	158.5	0.22	0	"	
1437	11.62		5.0	6.39 ^{.34}	21.1	0.804	153.1	0.26 ^{.08}	0	DO = 0.26	
1442	11.62		6.1	6.33	21.2	0.836	156.1	0.20	0	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOCs										
Notes:	DVM = 0										
Sample Date/Time: 2/24/98 / 1443											
Signed/Sampler: K.E. Swanson / C. Fitzgerald											

FIELD SAMPLING REPORT

LOCATION: TIN-119PROJECT: 138681.AZ.04SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1A047SAMPLING METHOD SPDUP/REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 2/29/98 TIME: 1443

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40 ml	3	HCl		8260	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 75°FSHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Pavenger Analytics

COMMENTS: _____

SAMPLER: C. Fitzgerald OBSERVER: K. Swanson

MATRIX TYPE CODES

DC=DRILL CUTTINGS
WG=GROUNd WATER
LH=HAZARDOUS LIQUID WASTE
SH=HAZARDOUS SOLID WASTE
SE=SEDIMENTSL=SLUDGE
SO=SOIL
GS=SOIL GAS
WS=SURFACE WATER
SW=SWABWIPE

SAMPLING METHOD CODES

B=BALER
BR=BRASS RING
CS=COMPOSITE SAMPLE
C=CONTINUOUS FLIGHT AUGER
DT=DRIVEN TUBE
W=SWABWIPE
G=GRAB
HA=HAND AUGER
H=HOLLOW STEM AUGER
HP=HYDRO PUNCH
SS=SPLIT SPOON
SP=SUBMERSIBLE PUMP

652 0387

Figure 1: Well Sampling Field Data Sheet

Well Number: HM-120	Site: AOCR NAS										
Crew: M. Wilson T.S.F.in	Date: 2/23/98										
Well Depth (ft.): 17.6	Initial D.O. Profile:										
DTW (ft.) 0.98	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 7.6-17.6											
Well Diameter (in.) 4"											
Placement of Pump (ft.) 15											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0830	1.19	—	—	6.45	15.2	1.31	203.9	2.69	9	Clear	
0835	1.12		0.7	6.44	16.8	1.25	202.0	2.50	7	"	
0840	1.12		1.1	6.67	17.0	1.24	201.5	2.46	7	"	
0845	1.09		1.5	6.81	17.2	1.24	95.7	2.31	7	"	
0850	1.09		1.8	6.82	17.5	1.24	96.3	2.12	8	"	
0855	1.09		2.0	6.82	17.7	1.24	96.2	2.08	7	"	
Observations											
Color: <input checked="" type="checkbox"/> Clear	Other (describe):										
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters: VOC											
Notes: 0 ppm											
Sample Date/Time: 2/23/98 0900											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: <u>AM-120</u>	PROJECT: <u>(3868)</u>																																								
SITE: <u>MAS AOCZ</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WC</u>	SAMPLE ID: <u>AIA 035</u>																																								
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>—</u>																																								
BEGINNING DEPTH <u>15</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO ()																																								
END DEPTH <u>15</u>																																									
GRAB () COMPOSITE ()	DATE: <u>2/23/98</u> TIME: <u>0900</u>																																								
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>8</u>	COLOR: <u>Clear</u>																																								
2nd <u>8</u>	ODOR: <u>None</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER SUN/CLEAR <u>X</u>	OVERCAST/RAIN <u>—</u>	WIND DIRECTION <u>—</u>	AMBIENT TEMP <u>55°</u>																																						
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER <u>—</u>	COURIER <u>—</u>	OTHER <u>—</u>																																						
SHIPPED TO: <u>Pars -</u>																																									
COMMENTS: <u>—</u>																																									
SAMPLER <u>M. M.</u>	OBSERVER: <u>—</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652 389

Well Number: HM-121	Site: NAS AOC 2										
Field Crew: M. Wilson / S. Finn	Date: 2/23/98										
Depth (ft.): 31.5	Initial D.O. Profile:										
DTW (ft.) 16.91	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 11.5 - 31.5											
Well Diameter (in.) 4"											
Placement of Pump (ft.) 31'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1003	16.97	-	-	6.92	18.9	1.48	103.4	1.70	8	Clear	
1008	16.96		0.9	6.90	21.0	1.48	36.7	1.56	25	"	
1014	16.96		1.3	6.91	20.1	1.49	7.1	1.68	21	"	
1018	16.96		1.6	6.97	19.6	1.49	-4.8	1.71	15	"	
1023	16.91		1.9	6.91	21.0	1.48	-55.3	1.73	16	"	
1028	16.99		2.1	6.91	20.7	1.48	-97.5	1.91	14	"	
1033	16.93		2.3	6.90	20.6	1.47	-56.7	1.61	9	"	
Observations											
Color: Clear	Other (describe):										
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters: VOC											
Notes: Open											
Sample Date/Time: 2/23/98 1035											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: <u>AM-121</u>	PROJECT: <u>138681.A2.074</u>																																													
SITE: <u>NAS AOCZ</u>																																														
SAMPLE INFORMATION																																														
MATRIX <u>WG</u>	SAMPLE ID. <u>AIA037</u>																																													
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>-</u>																																													
BEGINNING DEPTH <u>31</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>99</u>																																													
END DEPTH <u>31</u>																																														
GRAB <input checked="" type="checkbox"/> COMPOSITE <input type="checkbox"/>	DATE: <u>2/23/98</u> TIME: <u>1035</u>																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td><u>40m/W16 3</u></td><td><u>HCC</u></td><td></td><td><u>8260</u></td><td><u>UOC</u></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40m/W16 3</u>	<u>HCC</u>		<u>8260</u>	<u>UOC</u>																																			
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	OTHER:																																													
GENERAL INFORMATION																																														
WEATHER: SUN/CLEAR	OVERCAST/RAIN <u>Foggy</u>	WIND DIRECTION <u>S</u> AMBIENT TEMP <u>50°</u>																																												
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER	COURIER	OTHER																																											
SHIPPED TO: <u>Parson</u>																																														
COMMENTS:																																														
SAMPLER: <u>M. M.</u>	OBSERVER: _____																																													
MATRIX TYPE CODES		SAMPLING METHOD CODES																																												
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																											

Figure 1: Well Sampling Field Data Sheet

L7652A391

Well Number:	HU-125		Site: NAS Fort Worth							
Field Crew:	K. Swanson / C. Fitzgerald		Date: 2/24/18							
Initial Depth (ft.):	33'		Initial D.O. Profile:							
DTW (ft.)	16.50'		D.O. (mg/l)	Depth to water (ft.)						
Depth of screen (ft.):	13 - 33									
Well Diameter (in.)	4"									
Placement of Pump (ft.)	29'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1230	16.60		0	6.57	22.0	0.511	188.0	4.25	20	clear
1235	16.53		0.9	6.53	22.1	0.520	167.7	3.64	13	"
1240	16.55		1.2	6.61	23.9	0.521	179.7	3.66	12	"
1245	16.53		1.8	6.63	24.2	0.509	184.1	3.41	10	"
1250	16.59		2.9	6.64	24.4	0.506	189.7	4.01	10	surred clear
1255	16.60		3.8	6.64	24.2	0.500	188.9	4.06	3	clear
1300	16.60		4.9	6.64	24.5	0.499	189.5	3.88	2	"
1305	16.50		5.7	6.63	23.8	0.496	178.7	3.48	2	"
1310	16.50		5.6	6.65	23.4	0.495	182.0	3.27	1	"
1315	16.50		5.9	6.66	23.8	0.495	183.1	3.34	0	"
1320	16.50		6.4	6.64	23.9	0.495	184.6	3.26	2	"
Observations										
Color:	(Clear)	Other (describe):								
Odor:	(None)	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	SDCs									
Notes:	ORP=0 ppm									
Sample Date/Time:	2/24/18 / 1322									
Signed/Sampler:	K. Swanson / C. Fitzgerald A									

652 392

FIELD SAMPLING REPORT

LOCATION: <u>WHL25</u>	PROJECT: <u>138681.AZ.04</u>																																																		
SITE: <u>NAS Fort Worth JPB</u>																																																			
SAMPLE INFORMATION																																																			
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A048</u>																																																		
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>-</u>																																																		
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																																		
END DEPTH _____																																																			
GRAB () COMPOSITE ()	DATE: <u>2/24/98</u> TIME: <u>1322</u>																																																		
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	OTHER:																																																		
GENERAL INFORMATION																																																			
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>75°F</u>																																																
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																																
SHIPPED TO: <u>Paragon Analytics</u>																																																			
COMMENTS: _____																																																			
SAMPLER: <u>C. Fitzgerald</u>	OBSERVER: <u>K. Swanson</u>																																																		
MATRIX TYPE CODES		SAMPLING METHOD CODES																																																	
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																																

Figure 1: Well Sampling Field Data Sheet

100-652,393

Well Number:	LSA 1628-3		Site:	NHS Acc 2							
Field Crew:	M. Wilson, S. Fine		Date:	2/18/98							
Depth (ft.):	17.53		Initial D.O. Profile:								
DTW (ft.)	9.61 DTP (shallow)	9.62	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	8.5-18.5										
Well Diameter (in.):	4"										
Placement of Pump (ft.):	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) NS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1058	9.65	—	—	6.67	20.6	1.04	159.0	1.36*	*	Clear	
1103	9.64	—	.6	6.77	21.5	1.06	179.0	1.32*	*	"	
1108	9.64	—	1.0	6.80	21.8	1.04	84.4	1.36*	*	"	
1113	9.62	—	1.1	6.80	27.0	1.03	56.8	1.20*	*	"	
1118	9.62	—	1.4	6.78	22.4	1.03	51.8	1.21*	*	"	
1123	9.62	—	1.7	6.76	23.5	1.03	16.0	1.17*	*	"	
1128	9.62	—	2.0	6.74	24.0	1.04	20.5	1.05*	*	"	
1133	9.62	—	2.3	6.76	24.7	1.05	32.4	0.94*	*	"	
1138	9.62	—	2.7	6.77	24.3	1.04	31.5	0.91*	*	"	
12	9.63	—	3.0	6.78	24.3	1.04	30.7	0.96*	*	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: Shallow 9.61, H ₂ O @ 9.62											
Osm - 1.9 ppm											
Loss - Reg. 1 kg/hr											
* Turb not functioning											
Sample Date/Time: 2/18/98 / 1145											
Signed/Sampler: M. Wilson											

FIELD SAMPLING REPORT

LOCATION: NAS
SITE: LSA1628-3

PROJECT: 138681.AZ04

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: ATA007

SAMPLING METHOD SP

DUP/REP. OF: —

BEGINNING DEPTH 16

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH 16

GRAB (X) COMPOSITE ()

DATE: 2/18/97 TIME: 1145

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
40mL vial	HCl		8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>1.9</u>	COLOR:	
2nd <u>1.0</u>	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN — WIND DIRECTION S AMBIENT TEMP 60°

SHIPMENT VIA: FED-X X HAND DELIVER — COURIER — OTHER —

SHIPPED TO: Paragon

COMMENTS: —

SAMPLER: M. Wi OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

FIELD SAMPLING REPORT

LOCATION: <u>MW-3</u>	PROJECT: <u>138681.A2.04</u>																																								
SITE: <u>NAS Fort Worth JRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A005</u>																																								
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>—</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (<u>X</u>)																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>2/18/98</u> TIME: <u>1154</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td><u>40 mL</u></td><td><u>HCl</u></td><td></td><td><u>8260</u></td><td><u>Volatile</u></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40 mL</u>	<u>HCl</u>		<u>8260</u>	<u>Volatile</u>																														
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NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>3.4 ppm</u>	COLOR:																																								
2nd <u>3.4 ppm</u>	ODOR:																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>~60°F</u>																																						
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Paragon Analytics Inc</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>C. Fitzgerald</u>	OBSERVER: <u>V. Swenson</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
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Figure 1: Well Sampling Field Data Sheet

Well Number: M6-49		Site: ADCZ								
Crew: M.W. Tsun / S. Fine		Date: 2/23/98								
Well Depth (ft.): 15.5		Initial D.O. Profile:								
DTW (ft.) 9.15		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.) 4"										
Placement of Pump (ft.) 13'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0916	9.73	—	—	7.04	16.6	0.661	81.8	2.08	2	clear
0921	9.19		0.4	6.98	16.7	0.673	59.6	1.90	16	"
0926	9.16		0.8	6.98	18.1	0.655	17.7	1.94	17	"
0931	9.16		1.1	6.97	18.9	0.623	-47.9	2.01	14	"
0936	9.16		1.3	6.96	18.9	0.605	-42.5	1.94	15	"
0941	9.16		1.5	6.96	19.1	0.605	-40.7	1.93	9	"
<i>M. W.</i>										
Observations										
Color: Clear	Other (describe):									
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:										
Notes: ppm										
Sample Date/Time: 2/23/97 0945										
Signed/Sampler: <i>M. W. Tsun</i>										

FIELD SAMPLING REPORT

LOCATION: MW-49	PROJECT: R38681.M2.04																																																
SITE: NAS AOC 2																																																	
SAMPLE INFORMATION																																																	
MATRIX WG	SAMPLE ID: AJA036																																																
SAMPLING METHOD SP	DUP./REP. OF: -																																																
BEGINNING DEPTH MB 13	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																																
END DEPTH 13																																																	
GRAB () COMPOSITE ()	DATE: 2/23/98 TIME: 0945																																																
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																															
1st 8	COLOR: Clear																																																
2nd 9	ODOR: None																																																
	OTHER:																																																
GENERAL INFORMATION																																																	
WEATHER: SUN/CLEAR X	OVERCAST/RAIN	WIND DIRECTION 5	AMBIENT TEMP 55°																																														
SHIPMENT VIA: FED-X	HAND DELIVER	COURIER	OTHER																																														
SHIPPED TO: Paragon																																																	
COMMENTS:																																																	
SAMPLER: M. Martin	OBSERVER:																																																
MATRIX TYPE CODES		SAMPLING METHOD CODES																																															
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																														

Figure 1: Well Sampling Field Data Sheet

652 399

Well Number:	MW-57	Site:	NAS Fort Worth JRB							
Field Crew:	K. Swanson, C. Fitzgerald	Date:	2/24/98							
Depth (ft.):	14.30	Initial D.O. Profile:								
DTW (ft.)	13.50	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.)	4"									
Placement of Pump (ft.)	NA									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0837	13.60		0.1	6.79	18.8	4.81		3.61	90	clear
0840	13.82		0.3	6.70	18.5	4.66		3.59	272	cloudy
0845	14.20		Well bailed dry after 0.5 gallons. will return at the end of the day to check recovery							
1055			return & sample well							
Observations										
Color:	Clear	Other (describe):	cloudy							
Odor:	<input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOCS									
Notes:	Bailed well, not enough H2O to pump									
Sample Date/Time:	2/24/98 / 1055									
Signed/Sampler:	K. Swanson / C. Fitzgerald									

FIELD SAMPLING REPORT

LOCATION: <u>MW-57</u>	PROJECT: <u>138681, A2.04</u>																																								
SITE: <u>NAS Fort Worth JRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A041</u>																																								
SAMPLING METHOD <u>B</u>	DUP/REP. OF: <u>—</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (<u>X</u>)																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>2/21</u> TIME: <u>1055</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>40 ml</td><td>HCl</td><td></td><td>8260</td><td>VDCS</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	40 ml	HCl		8260	VDCS																														
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																					
40 ml	HCl		8260	VDCS																																					
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>✓</u>	COLOR: <u>cloudy</u>																																								
2nd <u>✓</u>	ODOR: <u>none</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>75°F</u>																																						
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Paragon Analytical</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>K. Swanson/Certified</u>	OBSERVER: _____																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652-401

Well Number: MW-57B	Site: N/A S AOCZ										
Field Crew: M. Wicker / S. Finch	Date: 2/27/98										
Depth (ft.): 19.88	Initial D.O. Profile:										
DTW (ft.) 7.09	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.):											
Well Diameter (in.) 4"											
Placement of Pump (ft.) 17'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1347	7.76	—	—	6.88	18.9	7.66	99.2	9.33	9	cty.	
1352	8.00		6.3	6.85	19.1	7.67	97.7	9.10	9	"	
1357	8.30	—	0.8	6.84	19.4	7.67	101.6	3.60	9	"	
1402	8.60		1.1	6.83	19.9	7.65	106.0	4.07	8	"	
1407	8.84		1.3	6.83	20.3	7.67	105.2	3.97	7	"	
1412	8.96		1.6	6.83	20.6	7.67	106.8	3.98	7	"	
<i>201.1</i>											
Observations											
Color: <input checked="" type="checkbox"/> Clear	Other (describe):										
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters: VOC											
Notes: Oppma											
Sample Date/Time: 2/23/98 1415											
Signed/Sampler:											

652 402

FIELD SAMPLING REPORT

LOCATION: MW-57B
 SITE: NAS AOCZ

PROJECT: 138681.A2-04

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA034SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 17MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO END DEPTH 17GRAB COMPOSITE DATE: 2/23/98 TIME: 1415

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
Ground Water 1	HCl		8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>8</u>	COLOR: <u>Clear</u>	
2nd <u>8</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 65°SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Fargo

COMMENTS: _____

SAMPLER: M.R.

OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

652-403

Figure 1: Well Sampling Field Data Sheet

Well Number: SPOT-35-4		Site: NAS Fort Worth SIKB								
Field Crew: K. Swanson, C. Fitzgerald		Date: 2/23/18								
Well Depth (ft.): <u>26.3</u>		Initial D.O. Profile:								
DTW (ft.) <u>20.00</u>		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): <u>14.3 - 24.3</u>										
Well Diameter (in.) <u>2"</u>										
Placement of Pump (ft.) <u>23'</u>										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) ms	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1035	20.05						X			
1042	20.74		0.1	6.67	20.4	1.35		0.84	209	clear
1050	20.63		1.0	6.80	23.0	1.21		0.46	50	"
1055	20.52		1.2	6.91	24.3	1.13		0.39	47	"
1100	21.60		1.7	6.89	26.4	1.19		0.42	221	sunny sl. cloudy
1110	20.99		2.6	6.94	25.5	1.03		0.46	113	flushed well then surged
1115	20.73		2.8	6.93	25.4	1.02		0.43	90	clear
1120	21.03		3.1	7.00	25.0	0.98		0.46	112	surged
1125	22.15		4.5	6.95	14.1	1.10		0.06	142	clear
1130	21.45		54.9	6.99	24.0	1.02		0.09	128	clear
1135	21.15		5.2	7.00	24.8	0.97		0.13	102	"
1235	21.45		6.3	6.83	23.8	0.881		0.26	97	"
1240	21.30		7.5	6.84	23.7	0.904		0.11	133	"
1245	21.25		8.0	6.86	24.2	0.907		0.16	93	"
1250	20.80		8.6	6.98	24.8	0.871		0.18	79	"
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: VOCs										
Notes: * ORP meter not functioning										
(1) 1235: flow cut out, then surged, then control box stopped functioning soon										
Sample Date/Time: 2/23/18 / 280										
Signed/Sampler: K. Swanson / C. Fitzgerald										

652 401

FIELD SAMPLING REPORT

LOCATION: SPOT-35-9

PROJECT: 138681.42.04

SITE: NAS Fort Worth SRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: AIAO

SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 2/23/98 TIME: 1250

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40ml	3	HCl	0260	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0	COLOR: clean	
2nd 0	ODOR: strong / fuel-like	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR _____ OVERCAST/RAIN X WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Pargon Analytics

COMMENTS: _____

SAMPLER: C Fitzgerald OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB		
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP		

6521405

Figure 1: Well Sampling Field Data Sheet

Well Number: USGS04T	Site: NAS Fort Worth VRR										
Field Crew: R. Swanson / C. Fitzgerald	Date: 2/19/98										
Depth (ft.): 28.5 - 25.5	Initial D.O. Profile:										
DTW (ft.) 17.15	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 15.5 - 25.5											
Well Diameter (in.): 2"											
Placement of Pump (ft.): 24'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1408	17.15										
1412	18.35		0.1	6.92	17.8	0.550	138.5	0.72	7999	cloudy	
1420	18.00		0.7	7.14	20.0	0.523	108.5	0.70	380	cloudy	
1425	18.00		1.5	7.14	21.1	0.543	56.8	0.36	140	clearing	
1430	18.00		2.0	7.14	21.8	0.549	27.5	0.24	57	clear	
1435	18.00		2.3	7.13	21.9	0.552	65.3	0.21	19	clear	
1440	18.00		2.9	7.13	22.0	0.553	47.0	0.16	14	"	
1445	18.00		3.1	7.12	22.2	0.554	41.0	0.16	8	"	
1450	18.00		3.5	7.11	22.3	0.553	8.6	0.14	4	"	
1455	18.00		4.5	7.12	22.2	0.551	14.1	0.15	3	"	
1500	18.00		5.8	7.11	22.3	0.555	12.0	0.12	5	"	
1505	18.00		6.1	7.08	22.8	0.557	10.0	0.13	10XES	"	
Observations											
Color: Clear	Other (describe):										
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters: VOCs											
Notes:											
DVM = 0 μm											
Sample Date/Time: 2/19/98 / 1510											
Signed/Sampler: R. Swanson / C. Fitzgerald											

652 406

FIELD SAMPLING REPORT

LOCATION: USGS04T

PROJECT: 138681.M2.04

SITE: NAS FORT NORTH JRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: AIAOK6

SAMPLING METHOD SP

DUP/REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 2/19/98 TIME: 1310

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40mL	3	HCl	8260	Volatile

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st ✓	COLOR: clear	
2nd ✓	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR ____ OVERCAST/RAIN X WIND DIRECTION ____ AMBIENT TEMP 50°

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: Peragon Analytix, Inc.

COMMENTS: _____

SAMPLER: C. Fitzgerald

OBSERVER: G.F. R. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

6:52: 407

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTA001	Site: NAS AOC?
Field Crew: M.W. Son / S. Finn	Date: 2/24/98
Depth (ft.): 46'	Initial D.O. Profile:
DTW (ft.) 25.67	D.O. (mg/l)
Depth of screen (ft.): 26'-46'	Depth to water (ft.)
Well Diameter (in.) 2"	
Placement of Pump (ft.) 44'	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1425	25.73	—	—	7.10	23.7	0.613	74.5	1.97	71000	Cloudy
1435	25.69	—	1.1	7.09	24.0	0.610	84.9	1.78	907	"
1445	25.84	—	3.0	6.97	21.9	0.626	230.8	1.22	959	"
1450	25.71	—	3.8	6.92	22.2	0.627	218.3	0.84	429	Cloudy
1455	25.71	—	4.4	6.91	23.9	0.626	212.2	0.94	322	Cloudy
1500	25.69	—	5.1	6.93	24.4	0.629	211.1	0.92	323	"
1505	25.69	—	5.6	6.94	24.6	0.625	208.5	0.94	710	"
1510	25.70	—	5.9	6.96	24.6	0.623	207.7	0.82	180	"
1515	25.69	—	7.4	6.96	25.0	0.625	206.9	0.84	170	"
1520	25.69	—	7.8	6.96	25.7	0.624	208.1	0.82	167	"

Observations

Color: <input checked="" type="radio"/> Clear	Other (describe):
Odor: <input checked="" type="radio"/> None	Low Medium High Very Strong H2S Fuel-Like
Sample Parameters:	
Notes: <u>ppm</u>	
Sample Date/Time: 2/24/98 1525	
Signed/Sampler: <u>M. W.</u>	

FIELD SAMPLING REPORT

LOCATION: WCHM 14TH 001
 SITE: NAS AOC 2

PROJECT: 138681.A2.04

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA049SAMPLING METHOD SPDUP./REP. OF: —BEGINNING DEPTH 44'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()END DEPTH 44'GRAB () COMPOSITE ()DATE: 2/24/98 TIME: 1525

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40mL vial	3	ACC	8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>8</u>	COLOR: <u>Clear</u>	
2nd <u>8</u>	ODOR: <u>Nom</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION S AMBIENT TEMP 76°SHIPMENT VIA: FED-X HAND DELIVER COURIER OTHER SHIPPED TO: PearsonCOMMENTS: SAMPLER: M. min OBSERVER:

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BALER	G=GRAB
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

11:652, -400

Well Number: WC HMTA 002		Site: NAS AOC 7									
Field Crew: M. Wilson / S. Finn		Date: 2/24/98									
Depth (ft.):	42	Initial D.O. Profile:									
DTW (ft.)	19.01	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	22-42'										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	40'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1045	19.08	-	-	7.05	20.1	0.665	41.2	3.48	>1000	Cloudy	
1055	19.01		0.9	7.09	20.9	0.585	90.6	3.02	>1000	"	
1110	19.01		1.9	7.09	22.7	0.561	150.7	3.00	>1000	"	
1175	18.99		2.6	7.09	22.9	0.577	127.9	2.97	>1000	"	
1140	18.98		3.2	7.06	23.7	0.566	197.2	2.93	765	clearing	
1155	18.98		4.0	7.04	23.8	0.572	197.8	2.74	401	"	
1210	18.98		5.0	7.04	24.2	0.581	196.7	2.69	210	"	
1220	18.98		5.5	7.03	24.3	0.586	205.4	2.70	140	"	
1230	18.98		6.1	7.04	24.4	0.619	209.3	3.27	146	"	
1245	18.98		6.6	7.04	24.4	0.623	208.4	2.43	150	clear	
			7.2	7.03	24.5	0.625	209.7	2.38	157		
Observations											
Color:	Clear	Other (describe):									
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOL										
Notes:	0 ppm										
Sample Date/Time: 2/24/98 1250											
Signed/Sampler: M. Wilson											

652 410

FIELD SAMPLING REPORT

LOCATION: WCHMH TH002PROJECT: 138681.12.04SITE: NAS AOCZ

SAMPLE INFORMATION

MATRIX LCSAMPLE ID: AIASAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 40'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO XEND DEPTH 40'

GRAB () COMPOSITE ()

DATE: 2/24/98 TIME: 1250

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40ml vial	3	HCC		8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>P</u>	COLOR:	
2nd <u>P</u>	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION S AMBIENT TEMP 65°SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Pagan

COMMENTS: _____

SAMPLER: M. Lui OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB		
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWABWIPE	SP=SUBMERSIBLE PUMP		

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTA 003		Site: AOCZ									
Well Crew: M. Wilson / S. F. Dunn		Date: 2/20/98									
Well Depth (ft.):	28	Initial D.O. Profile:									
DTW (ft.)	19.57	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	18-28										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	25										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0912	19.68	—	—	7.16	21.3	0.636	212.2	2.84	38	clear	
0917	19.69	—	0.7	7.20	21.8	0.538	79.1	3.16	77	"	
0922	19.61	—	1.1	7.18	23.7	0.511	30.5	3.15	70	"	
0927	19.64	—	1.6	7.18	24.1	0.510	25.2	3.19	59	"	
0932	19.64	—	2.0	7.18	25.0	0.519	17.9	2.86	50	"	
0937	19.63	—	2.4	7.17	25.4	0.523	17.8	2.42	48	"	
0942	19.61	—	2.8	7.15	25.8	0.533	18.9	2.66	44	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOC										
Notes:	ppm										
Sample Date/Time: 2/20/98 0945											
Signed/Sampler: M. Wilson											

GPM
11202/20/98
112 GPM

652 412

FIELD SAMPLING REPORT

LOCATION: <u>WCHMH7A003</u>	PROJECT: <u>138681.AZ.04</u>																																			
SITE: _____																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AIA025</u>																																			
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																			
BEGINNING DEPTH <u>75</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																			
END DEPTH <u>25</u>																																				
GRAB <input checked="" type="checkbox"/> COMPOSITE ()	DATE: <u>2/20/98</u> TIME: <u>0945</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr> <td><u>40ml/ml 3</u></td> <td><u>HCl</u></td> <td><u>8260</u></td> <td><u>VOC</u></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40ml/ml 3</u>	<u>HCl</u>	<u>8260</u>	<u>VOC</u>																										
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																
<u>40ml/ml 3</u>	<u>HCl</u>	<u>8260</u>	<u>VOC</u>																																	
NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>9</u>	COLOR: <u>Clear</u>																																			
2nd <u>10</u>	ODOR: <u>None</u>																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <u>X</u> OVERCAST/RAIN _____	WIND DIRECTION <u>5</u>	AMBIENT TEMP <u>57°</u>																																		
SHIPMENT VIA: <u>FED-X X</u> HAND DELIVER _____ COURIER _____ OTHER _____																																				
SHIPPED TO: <u>PG regan</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>M. min</u>	OBSERVER: _____																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

, 652, 413

652 414

FIELD SAMPLING REPORT

LOCATION: LUC HMHTA 004PROJECT: 138681 H2.0 4SITE: AOCZ

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AJ4026SAMPLING METHOD SPDUP./REP. OF: —BEGINNING DEPTH 35MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO XEND DEPTH 35GRAB COMPOSITE DATE: 7/20/98 TIME: 0900

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40 ml	3	HCL		8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>8</u>	COLOR: <u>Clear</u>	
2nd <u>8</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION S AMBIENT TEMP 52°SHIPMENT VIA: FED-X HAND DELIVER COURIER OTHER SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: J.L. OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652, 415

Well Number: WCHMHT4005	Site: NWS AOCZ										
Field Crew: M.Wilson / S.Finn	Date: 2/24/98										
Depth (ft.): 26'	Initial D.O. Profile:										
DTW (ft.) 16.37	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 16-26'											
Well Diameter (in.) 2"											
Placement of Pump (ft.) 24'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0932	16.47	—	—	7.12	22.3	0.502	99.1	4.06	267	sl. cloudy	
0937	16.37		1.6	7.13	22.0	0.492	82.4	3.65	41	clear	
0942	16.37		2.0	7.11	22.0	0.502	86.2	3.76	7	"	
0947	16.37		2.3	7.11	24.4	0.499	87.2	4.00	7	"	
0952	16.37		2.6	7.13	24.7	0.500	89.4	3.75	9	"	
Observations											
Color: Clear	Other (describe):										
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters: VOC											
Notes: ppm											
Sample Date/Time: 2/24/98 - 0955											
Signed/Sampler: M.Wilson											

FIELD SAMPLING REPORT

LOCATION: <u>WCHMHTA005</u>	PROJECT: <u>138681.42.04</u>																																			
SITE: <u>NAS AOC7</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AIA05-1</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>—</u>																																			
BEGINNING DEPTH <u>24'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>																																			
END DEPTH <u>24'</u>																																				
GRAB <input checked="" type="checkbox"/> COMPOSITE <input type="checkbox"/>	DATE: <u>2/24/98</u> TIME: <u>0955</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr> <td><u>40ml vial</u></td> <td><u>HCl</u></td> <td><u>8260</u></td> <td><u>Voc</u></td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40ml vial</u>	<u>HCl</u>	<u>8260</u>	<u>Voc</u>																										
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																
<u>40ml vial</u>	<u>HCl</u>	<u>8260</u>	<u>Voc</u>																																	
NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>0</u>	COLOR: <u>clear</u>																																			
2nd <u>0</u>	ODOR: <u>none</u>																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <u>Y</u>	OVERCAST/RAIN <u>—</u>	WIND DIRECTION <u>S 15</u>																																		
AMBIENT TEMP <u>60°</u>																																				
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER <u>—</u>	COURIER <u>—</u>																																		
OTHER <u>—</u>																																				
SHIPPED TO: <u>Pagan</u>																																				
COMMENTS: <u>—</u>																																				
SAMPLER: <u>M. L.</u>	OBSERVER: <u>—</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

652 417

Well Number: WCHMHTAS	Site: NAS AOC 2
Field Crew: M. Wilson / S. Finn	Date: 2/24/98
Depth (ft.): 36.5	Initial D.O. Profile:
DTW (ft.) 16.18	D.O. (mg/l)
Depth of screen (ft.): 26'-36'	Depth to water (ft.)
Well Diameter (in.) 2"	
Placement of Pump (ft.) 29'	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0828	16.19	—	—	6.73	19.6	0.570	18.0	3.95	>1000	cloudy
0838	16.19		1.0	7.04	22.6	0.556	42.1	3.52	890	clearing
0850	16.19		1.9	7.09	24.7	0.553	17.8	3.68	540	"
0901	16.19		2.8	7.07	24.8	0.550	11.1	3.40	222	clear
0906	16.19	—	3.0	7.06	25.0	0.548	0.6	3.22	44	"
0911	16.19		3.7	7.06	25.2	0.548	0.8	3.36	28	"
0916	16.19		3.6	7.07	25.2	0.550	-3.1	3.30	10	"
0921	16.19		4.0	7.06	25.1	0.553	-4.9	2.98	9	a

Observations

Color: Clear	Other (describe):
Odor: None	Low Medium High Very Strong H2S Fuel-Like
Sample Parameters: VOC	
Notes: 0 ppm	
Sample Date/Time: 2/24/98, 0925	
Signed/Sampler: M. L.	

FIELD SAMPLING REPORT

Figure 1: Well Sampling Field Data Sheet

00652419

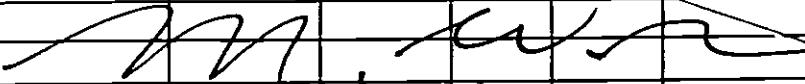
Well Number: WCHMHTA 007	Site: NAS FN JRB										
Field Crew: K. Swanson, C. Fitzgerald	Date: 1/26/98										
Depth (ft.): 32.5	Initial D.O. Profile:										
DTW (ft.) 13.85	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): 12.5 - 32.5											
Well Diameter (in.) 2"											
Placement of Pump (ft.) 30'											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (microes/cm) ms	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1013	13.88		0.3	6.76	22.1	0.719	220.1	4.08	2959	cloudy	
1018	13.90		1.8	6.87	23.1	0.615	195.5	4.22	500	"	
1025	13.88		2.1	6.86	23.8	0.703	190.7	4.06	300	clearing	
1040	13.88		3.1	6.88	24.1	0.725	186.6	3.77	598	"	
1045	13.88		4.5	6.92	24.5	0.730	183.0	3.64	212	"	
1050	13.88		5.0	6.75	24.5	0.735	172.8	3.76	.53	fliped clear	
1055	13.88		5.5	6.94	24.5	0.731	174.2	3.65	.45	"	
1100	13.88		6.3	6.94	24.5	0.734	174.2	3.57	34	"	
1105	13.88		7.0	6.94	24.5	0.735	180.1	3.62	27	"	
1110	13.88		7.8	6.94	24.8	0.738	178.0	3.56	19	"	
1115	13.88		8.1	6.95	24.8	0.738	179.2	3.47	14	"	
1120	13.88		8.4	6.95	25.0	0.737	178.3	3.42	13	"	
Observations											
Color: Clear	Other (describe):										
Odor: None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters: VOCs											
Notes: AVW = 0											
Sample Date/Time: 2/10/98 / 1120											
Signed/Sampler: K. Swanson / C. Fitzgerald											

FIELD SAMPLING REPORT

LOCATION: <u>NCHMUTAO07</u>	PROJECT: <u>138681 AZ.04</u>																																			
SITE: <u>NAS FW JRB</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A-024</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																			
END DEPTH _____																																				
GRAB () COMPOSITE ()	DATE: <u>2/20/98</u> TIME: <u>1120</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>10 ml</td><td>HCl</td><td></td><td>B260</td><td>VOCS</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	10 ml	HCl		B260	VOCS																									
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																
10 ml	HCl		B260	VOCS																																
NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>0</u>	COLOR: <u>clear</u>																																			
2nd <u>0</u>	ODOR: <u>none</u>																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <u>X</u> OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>66</u>																																		
SHIPMENT VIA: FED-X <u>X</u> HAND DELIVER _____	COURIER _____	OTHER _____																																		
SHIPPED TO: <u>Paragon Analytics</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>C. Fitzgerald</u>	OBSERVER: <u>K. Evans</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

652-421

Well Number: WCHMHTA008		Site: NASA DCZ									
Crew: M. Wilson / S. Finn		Date: 2/23/98									
Well Depth (ft.):	75.0	Initial D.O. Profile:									
DTW (ft.)	12.74	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	10-75										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	73'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1103	12.73	—	—	6.94	18.7	1.97	-89.6	0.32	346	cloudy	
1109	12.73		0.6	6.97	19.0	1.93	-66.5	0.19	333	sl. cloudy	
1113	12.73		0.9	6.96	19.8	1.93	-85.0	0.38	281	clearing	
1123	12.73		1.4	6.93	22.5	1.93	-89.8	0.46	231	"	
1133	12.73		1.7	6.92	24.1	1.93	-99.4	0.34	221	"	
1140	12.74		2.0	6.92	25.3	1.90	-92.3	0.47	232	"	
1145	12.73		2.2	6.91	25.5	1.97	-98.1	0.37	235	"	
											
Observations											
Color:	Clear	Other (describe):	sl. red tint								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	DO										
Notes:	0 ppm										
Sample Date/Time:	2/23/98 1150										
Signed/Sampler:	M. Wilson										

FIELD SAMPLING REPORT

LOCATION: 2006XHMH4008PROJECT: 138681.A2,04SITE: NAS Aec 2

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AJA038SAMPLING METHOD SPDUP/REP. OF: —BEGINNING DEPTH 23'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 23'

YES () NO (x)

GRAB () COMPOSITE ()

DATE: 2/23/98 TIME: 1150

CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
#				
<u>40ml vials</u>	<u>ACQ</u>		<u>8260</u>	<u>VOC</u>

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>9</u>	COLOR:	
2nd	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN — WIND DIRECTION S AMBIENT TEMP 58°SHIPMENT VIA: FED-X X HAND DELIVER — COURIER — OTHER —SHIPPED TO: ParagonCOMMENTS: —SAMPLER: M. C. OBSERVER: —

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652.423

652 424

FIELD SAMPLING REPORT

LOCATION: WC4MHTA009PROJECT: 138681 A2.04SITE: NAS Acc 2

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA-017SAMPLING METHOD SPDUP/REP. OF: -BEGINNING DEPTH 11MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES (X) NO MWEND DEPTH 11

GRAB (Y) COMPOSITE ()

DATE: 2/19/98 TIME: 1145

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
<u>40m U11</u>	<u>S9 HCl</u>		<u>8260</u>	<u>VOC</u>

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR:	
2nd	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN X WIND DIRECTION N AMBIENT TEMP 48°SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: M. Liu OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652-425

Well Number: WCHMH7A 010		Site: NTS Acc 2									
Field Crew: M. Wilson, S. Finn		Date: 2/19/98									
Depth (ft.):	25.5	Initial D.O. Profile:									
DTW (ft.)	5.84	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	15-25										
Well Diameter (in.)	2										
Placement of Pump (ft.)	22										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mscm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1420	5.85	—	—	6.85	18.8	1.10	37.0	0.72	732	cloudy	
1435	5.85		0.8	6.86	17.7	1.11	87.8	0.70	650	"	
1445	5.84		1.1	6.86	17.9	1.11	18.4	0.85	656	"	
1455	5.85		1.3	6.83	18.5	1.02	3.3	0.89	509	clearing	
1505	5.86		1.9	6.83	24.0	1.13	5.3	0.53	359	"	
1515	5.85		2.8	6.84	24.0	1.17	22.5	0.41	210	clear	
1525	5.85		3.2	6.84	24.0	1.17	35.0	0.34	138	"	
1535	5.85		3.9	6.84	23.9	1.17	43.7	0.29	98	"	
1545	5.85		5.0	6.83	23.8	1.17	55.6	0.26	64	"	
1555	5.85		5.5	6.84	23.9	1.17	60.3	0.25	47	"	
1605	5.85		6.3	6.84	24.0	1.17	61.5	0.23	39	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: 0 ppm											
Sample Date/Time: 2/19/98 - 1610											
Signed/Sampler: M. Wilson											

652 426

FIELD SAMPLING REPORT

LOCATION: WC4MHTA-010PROJECT: 138681.AZ.04

SITE: _____

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA019SAMPLING METHOD SPDUP./REP. OF: —BEGINNING DEPTH 27MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO YEND DEPTH 2GRAB M COMPOSITE ()DATE: 2/19/97 TIME: 1610

CONTAINER SIZE/TYPE #	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
<u>40mL vial 13</u>	<u>ACL</u>		<u>B260</u>	<u>VOC</u>

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR:	
2nd	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN X WIND DIRECTION N AMBIENT TEMP 44°SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: M.W. OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	SL=SLUDGE
WG=GROUN WATER	SO=SOIL
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER
SE=SEDIMENT	SW=SWAB\WIPE
	B=BALER
	BR=BRASS RING
	CS=COMPOSITE SAMPLE
	C=CONTINUOUS FLIGHT AUGER
	DT=DRIVEN TUBE
	W=SWAB\WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

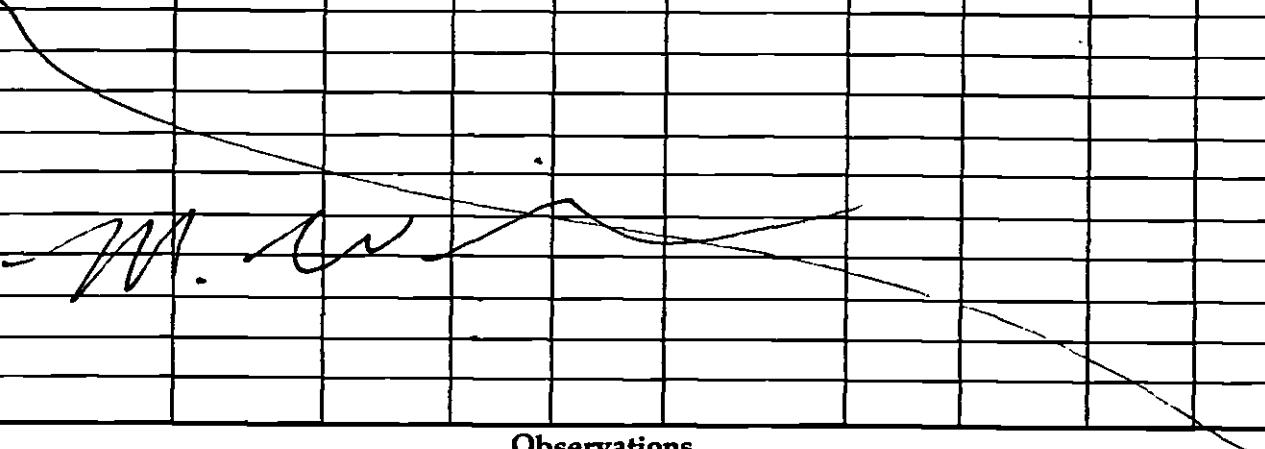
652 427

FIELD SAMPLING REPORT

LOCATION: <u>WCHMHTAO II</u>	PROJECT: _____																																								
SITE: _____																																									
SAMPLE INFORMATION																																									
MATRIX <u>WA</u>	SAMPLE ID: <u>AIA070</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																								
BEGINNING DEPTH <u>20</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>NO</u>																																								
END DEPTH <u>20</u>																																									
GRAB () COMPOSITE ()	DATE: <u>2/19/98</u> TIME: <u>1025</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr> <td><u>40ml VIAL</u></td> <td><u>HCl</u></td> <td><u>8260</u></td> <td><u>VDC</u></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40ml VIAL</u>	<u>HCl</u>	<u>8260</u>	<u>VDC</u>																															
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																					
<u>40ml VIAL</u>	<u>HCl</u>	<u>8260</u>	<u>VDC</u>																																						
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>8</u>	COLOR: <u>Clear</u>																																								
2nd <u>8</u>	ODOR: <u>None</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR	OVERCAST/RAIN <u>X</u>	WIND DIRECTION <u>N</u>	AMBIENT TEMP <u>45°</u>																																						
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER	COURIER	OTHER																																						
SHIPPED TO: <u>Paragon</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>M. Lee</u>	OBSERVER: _____																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUN WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652 429

Well Number: WCHMHTA017		Site: NAS Hoc 7									
Field Crew: M. Wilson, S. Fine		Date: 2/18/98									
Depth (ft.): 18.5'		Initial D.O. Profile:									
DTW (ft.)	13.45	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.): 8.5 - 18.5											
Well Diameter (in.)	2"										
Placement of Pump (ft.)	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) mS/cm	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1452	13.46	—	—	6.68	21.4	1.34	-93.9	0.55	130	cl.-	
1457	13.46	0.4	0.4	6.76	21.7	1.34	-93.2	0.29	119	"	
1502	13.46	0.7	0.7	6.76	23.3	1.32	-95.4	0.29	90	"	
1507	13.46	1.0	1.0	6.75	24.8	1.31	-94.2	0.24	70	"	
1512	13.47	1.3	1.3	6.74	25.0	1.30	-92.5	0.24	66	-	
1518	13.47	1.6	1.6	6.75	25.4	1.31	-94.4	0.23	70	"	
											
Observations											
Color:	<input checked="" type="radio"/> Clear	Other (describe):									
Odor:	<input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOC										
Notes:											
Sample Date/Time:	2/18/98 - 1520										
Signed/Sampler:	M. Wilson										

DO

652 430

FIELD SAMPLING REPORT

LOCATION: NAS AOC ZPROJECT: 138681.A2.04SITE: WC HMHTA G12

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIASAMPLING METHOD SPDUP./REP. OF: BEGINNING DEPTH 16'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (Y)END DEPTH 16'

GRAB (X) COMPOSITE ()

DATE: 2/18/98 TIME: 1520

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
4cm vial	3	HCl	8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR:	
2nd <u>0</u>	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION AMBIENT TEMP SHIPMENT VIA: FED-X X HAND DELIVER COURIER OTHER SHIPPED TO: ParagonCOMMENTS: SAMPLER: M. W. OBSERVER:

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BALER	G=GRAB		
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWABWIPE	SP=SUBMERSIBLE PUMP		

Figure 1: Well Sampling Field Data Sheet

652,431

FIELD SAMPLING REPORT

LOCATION: WCHMHTAO13PROJECT: 138681.HL.04

SITE: _____

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA 02SAMPLING METHOD B

DUP/REP. OF: _____

BEGINNING DEPTH 16MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()END DEPTH 16

GRAB () COMPOSITE ()

DATE: 2/19/98 TIME: 0840

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40ml vial	3			8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>8</u>	COLOR: <u>Clear</u>	
2nd <u>9</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR _____ OVERCAST/RAIN X WIND DIRECTION _____ AMBIENT TEMP 48°SHIPMENT VIA: FEDEX X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: M.W. OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

15652 .433

FIELD SAMPLING REPORT

LOCATION: WCHMUTA019PROJECT: 138681.AZ.09SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1A053SAMPLING METHOD BDUP./REP. OF: -

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO X

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 2/24/98 TIME: 1000

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
<u>40 oz</u>	<u>3</u>	<u>HCl</u>	<u>-</u>		

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR:	
2nd	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 75FSHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: CF/KS OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE

Figure 1: Well Sampling Field Data Sheet

652 485

Well Number: WITZTA01D		Site: NAS FW JR8									
Field Crew: K.Swanson, C.Fitzgerald		Date: 2/18/98									
Depth (ft.):	18.70	Initial D.O. Profile:									
DTW (ft.)	14.45	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	11.4 - 18.65										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1323	14.43										
1329	14.45		0.3	7.34	21.3	0.552	-10.0	-4.72	70	clear	
1336	14.45		0.8	7.37	22.0	0.555	-22.1	-4.76	18	"	
1341	14.45		1.0	7.36	22.3	0.554	-25.7	-4.69	30	"	
1348	14.45		1.5	7.37	23.8	0.556	-48.8	-4.60	14	"	
1353	14.46		1.8	7.38	23.5	0.557	-55.9	-4.80	13	"	
1358	14.46		2.0	7.42	23.8	0.557	-63.0	-4.81	8	"	
131403	14.47		2.3	7.38	23.6	0.558	-60.1	-4.94	9	"	
1408	14.46		2.7	7.36	23.5	0.557	-70.4	-4.97	8	"	
1413	14.45		3.2	7.40	23.5	0.558	65 -62.9	-5.05	6	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes: * D.O. meter not functioning properly DOH = 0 ppm											
Sample Date/Time: 2/18/98 / 1415											
Signed/Sampler: K.Swanson / C.Fitzgerald											

FIELD SAMPLING REPORT

LOCATION: WITCTADIOPROJECT: 138681.4204SITE: NAS FW JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIA008SAMPLING METHOD SPDUP/REP. OF: —

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO XX

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 2/18/98 TIME: 145

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 ml	3	HCl	-	8260 Volatile

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP ~65°FSHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: C. Fitzgerald OBSERVER: K. Swanson

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUND WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWAB\WIPE

SAMPLING METHOD CODES

B=BAILER
 BR=BRASS RING
 CS=COMPOSITE SAMPLE
 C=CONTINUOUS FLIGHT AUGER
 DT=DRIVEN TUBE
 W=SWAB\WIPE

G=GRAB
 HA=HAND AUGER
 H=HOLLOW STEM AUGER
 HP=HYDRO PUNCH
 SS=SPLIT SPOON
 SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

1652, 437

Well Number: WITCTA01b		Site: NAS Fort Worth VRB								
Field Crew: K. Swanson, C. Fitzgerald		Date: 2/23/98								
Depth (ft.): <u>27.62</u>		Initial D.O. Profile:								
DTW (ft.) <u>18.35</u>		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.) <u>2"</u>										
Placement of Pump (ft.) <u>24'</u>										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (µmhos/cm) ms	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0903	18.36			6.56	20.5	1.18	*	0.51	813	cloudy
0908	18.35		0.2	6.59	22.6	1.18		0.12	719	"
0915	18.35		1.7	6.83	24.4	1.18		0.19	691	"
0925	18.35		3.2	6.87	24.5	1.18		0.13	253	clearing
0930	18.35		4.1	6.87	24.5	1.18		0.12	40	clear
0935	18.35		5.7	6.90	24.6	1.18		0.11	39	
0940	18.35		6.9	6.90	24.5	1.17		0.12	38	
0945	18.35		7.8	6.90	24.5	1.17				
Observations										
Color: <input checked="" type="checkbox"/> Clear	Other (describe):									
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOLC										
Notes: * ORP meter not functioning										
Sample Date/Time: 2/23/98 / 0945										
Signed/Sampler: K. Swanson / C. Fitzgerald										

FIELD SAMPLING REPORT

LOCATION: NITCTAO16 PROJECT: 138681-AZ.04
 SITE: NAS Fort Worth VRB

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: A1A031

SAMPLING METHOD SP DUP/REP. OF: _____

BEGINNING DEPTH _____ MATRIX SPIKE/MATRIX SPIKE DUPLICATE

YES NO

END DEPTH _____

GRAB () COMPOSITE () DATE: 2/23/98 TIME: 0945

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40ml	3	HCl	B260	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR _____ OVERCAST/RAIN WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Paragon Analytics, Inc.

COMMENTS: _____

SAMPLER: C. Fitzgerald OBSERVER: K. Swanson

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB		
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP		

TAB

APRIL 1998

Figure 1: Well Sampling Field Data Sheet

1652 440

Well Number:	GML-22-02 M		Site:	NAS FW URB							
Field Crew:	K. Swanson, S. Finn		Date:	4/22/98							
Depth (ft.):	28.5		Initial D.O. Profile:								
DTW (ft.)	8.54		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	15-28.5										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	26'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1058	8.62		0.2	6.99	19.3	374	38.3	.43	240	cloudy	
1105	8.72		1.0	6.81	19.7	0.421	47.1	0.17	185	"	
1110	8.69		1.3	6.79	20.5	0.435	31.3	0.02	136	cloudy	
1115	8.69		2.0	6.79	21.4	0.441	30.2		100	"	
1120	8.69		2.5	6.77	21.7	0.448	31.0		82	"	
1125	8.69		2.9	6.77	21.9	0.453	33.4		76	"	
1130	8.69		3.2	6.77	22.0	0.456	34.7		71	"	
1135	8.69		3.5	6.76	22.1	0.459	34.0	0.6	69	"	
								↓		spectrophotometer	
Observations											
Color:	Clear	Other (describe):									
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:											
Notes: Initial spectrophotometer reading for DO = 0.5 mg/L, meter fluctuates between positive & negative readings											
Sample Date/Time: 4/22/98 1140											
Signed/Sampler: K. Swanson											

FIELD SAMPLING REPORT

LOCATION: GU-22-024PROJECT: 138681. AZ.04SITE: NAS FW SRB

SAMPLE INFORMATION

MATRIX NGSAMPLE ID: A13024SAMPLING METHOD SP

DUP/REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 4/22/98 TIME: 1140

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
	1			9060	TDC
	1			6010	cations
	3			8160	VDC's
	1			310.1/9056	Get AIC/Anions
	2			9146	Fe ²⁺
	3			6211	CHg

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>1.8 ppm</u>	COLOR: <u>clear</u>	
2nd <u>7.8 ppm</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR (X) OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X (X) HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Paragon / QAC

COMMENTS: _____

SAMPLER: S. Giv OBSERVER: R. Swanson

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUNd WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWABWIPE

SAMPLING METHOD CODES

B=BAILER
 BR=BRASS RING
 CS=COMPOSITE SAMPLE
 C=CONTINUOUS FLIGHT AUGER
 DT=DRIVEN TUBE
 W=SWABWIPE

G=GRAB
 HA=HAND AUGER
 H=HOLLOW STEM AUGER
 HP=HYDRO PUNCH
 SS=SPLIT SPOON
 SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652-142

Well Number:	GM1-22-034		Site:	NAS FW JRB			
Field Crew:	K Swanson S. Finn		Date:	4/21/98			
Depth (ft.):	32'		Initial D.O. Profile:				
DTW (ft.)	20.36		D.O. (mg/l)	Depth to water (ft.)			
Depth of screen (ft.):	12'-32'						
Well Diameter (in.)	2"						
Placement of Pump (ft.)	23'						
Field Parameters							
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP
1116	20.34			6.44	21.5	1.03	-146.4
1120	20.36		0.5	6.44	21.5	1.00	-143.9
1125	20.37		1.0	6.47	22.5	1.00	-136.4
1130	20.36		1.5	6.43	24.3	0.99	-139.4
1135	20.36		1.8	6.45	25.2	1.00	-129.4
1140	20.36		2.1	6.59	26.2	1.00	-127.9
1145	20.36		2.3	6.65	26.5	1.00	-125.1
1155	20.36		2.8	6.70	28.1	0.99	-134.2
1200	20.36		2.9	6.63	28.6	1.00	-132.1
1205	20.36		3.2	6.67	29.2	1.00	-137.8
1210	20.37		3.4	6.68	29.3	1.00	-134.5
Observations							
Color:	<input checked="" type="checkbox"/> Clear	Other (describe):					
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like
Sample Parameters:	VOCs						
Notes:	* Generator tripped at flow @ 1150, will allow 5 min for well to stabilize Flow cut out then surged while sampling						
Sample Date/Time:	4/21/98 / 1210						
Signed/Sampler:	KES						

652 443

FIELD SAMPLING REPORT

LOCATION: GM1-22-03M PROJECT: 138621, RZ-09
 SITE: NAS FW OPS

SAMPLE INFORMATION

MATRIX WG SAMPLE ID: A1B009

SAMPLING METHOD SP DUP./REP. OF: _____

BEGINNING DEPTH _____ MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 YES () NO

END DEPTH _____

GRAB () COMPOSITE () DATE: 4/21/98 TIME: 1210

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 ml	3	HCl	8260	VOC's

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0 ppm</u>	COLOR: <u>clear</u>	
2nd <u>0 ppm</u>	ODOR: <u>no</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: S. Am OBSERVER: K. Gause

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUNd WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWAB\WIPE

SAMPLING METHOD CODES

B=BAILER	G=GRAB
BR=BRASS RING	HA=HAND AUGER
CS=COMPOSITE SAMPLE	HP=HOLLOW STEM AUGER
C=CONTINUOUS FLIGHT AUGER	SS=SPLIT SPOON
DT=DRIVEN TUBE	SP=SUBMERSIBLE PUMP
W=SWAB\WIPE	

Figure 1: Well Sampling Field Data Sheet

652-144

Well Number: GM1-22-04M		Site: NAS FW JRB								
Field Crew: R. Swanson / S. Finn		Date: 9/21/78								
Depth (ft.): <u>23'</u>		Initial D.O. Profile:								
DTW (ft.) <u>19.34</u>		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.) <u>13-23'</u>										
Well Diameter (in.) <u>2"</u>										
Placement of Pump (ft.) <u>21'</u>										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
0945			0							
0950	19.54		0.1	6.53	19.0	1.10	54.0	1.20	86	clear
0955	19.57		0.8	6.65	22.3	1.03	35.3	0.38	37	"
1000	19.48		1.5	6.73	23.4	1.05	-6.0	0.36	59	"
1005	19.50		2.0	6.70	23.6	1.06	-29.7	0.64	40	flow out
1010	19.48		2.5	6.68	25.0	1.07	-33.9	0.40	60	clear
1015	19.49		2.9	6.71	24.3	1.07	-60.0	0.14	63	"
1025	19.42		3.5	6.96	25.9	1.07	-88.3	0.53	74	flow out
1030	19.47		4.0	6.76	25.9	1.08	-103.6	0.32	70	clear
1035	19.41		4.3	6.70	25.9	1.08	-115.4	0.26	35	"
1040	19.48		4.6	6.70	26.0	1.08	-118.4	0.30	40	"
1045	19.41		5.0	6.69	25.7	1.08	-116.5	0.30	50	"
Observations										
Color: <u>Clear</u>	Other (describe):									
Odor: <u>None</u>	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: V6CS										
Notes:										
Sample Date/Time: 9/21/78 / 1048										
Signed/Sampler: R. Swanson										

FIELD SAMPLING REPORT

LOCATION: <u>GMI-22-04 M</u>	PROJECT: <u>138681.A2.04</u>																																								
SITE: <u>NAS FW JRS</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A1B010</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																								
BEGINNING DEPTH <u>/</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>																																								
END DEPTH <u>/</u>																																									
GRAB () COMPOSITE ()	DATE: <u>4/21/98</u> TIME: <u>1048</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> <tr> <th>SIZE/TYPE</th> <th>#</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><u>40 ml</u></td> <td><u>3</u></td> <td><u>HCl</u></td> <td><u>8260</u></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	SIZE/TYPE	#				<u>40 ml</u>	<u>3</u>	<u>HCl</u>	<u>8260</u>																										
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																					
SIZE/TYPE	#																																								
<u>40 ml</u>	<u>3</u>	<u>HCl</u>	<u>8260</u>																																						
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>0.5 ppm</u>	COLOR:																																								
2nd <u>0.5 ppm</u>	ODOR:																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN <u> </u>	WIND DIRECTION <u>calm</u> AMBIENT TEMP <u>65</u>																																							
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER <u> </u>	COURIER <u> </u> OTHER <u> </u>																																							
SHIPPED TO: <u>Pango</u>																																									
COMMENTS: <u> </u>																																									
SAMPLER: <u>S. Finn</u>	OBSERVER: <u>K. Swann</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS	SL=SLUDGE	G=GRAB																																							
WG=GROUND WATER	SO=SOIL	HA=HAND AUGER																																							
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	H=HOLLOW STEM AUGER																																							
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	HP=HYDRO PUNCH																																							
SE=SEDIMENT	SW=SWAB/WIPE	SS=SPLIT SPOON																																							
		SP=SUBMERSIBLE PUMP																																							

Figure 1: Well Sampling Field Data Sheet

652 446

FIELD SAMPLING REPORT

LOCATION: 6MT-22-03PROJECT: 138681.47.04SITE: NAS FW JRB

SAMPLE INFORMATION

MATRIX NGSAMPLE ID: AIB021SAMPLING METHOD SP

DUP/REP. OF: _____

BEGINNING DEPTH 13'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)END DEPTH 13'

GRAB () COMPOSITE ()

DATE: 4-23-98 TIME: 8:28

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 oz	3	4C1	8260	VOCs
			1056/310.1	Alk/Harmous
			SM6L11	Methane
			FA14 8146	Fe2+
			0010 4050	TDL
				Cation

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>O</u>	COLOR: <u>clear</u>	
2nd <u>O</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Porcelyn

COMMENTS: _____

SAMPLER: Miko Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUNd WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWABWIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

1652-148

Well Number: GM1-22-06 M		Site: NA8 FW JR8									
Field Crew: V.Swanson, S.Fran		Date: 4/21/98									
Depth (ft.):	23.5	Initial D.O. Profile:									
DTW (ft.)	18.12	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	13.5 - 23.5										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	22'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1340											
1345	18.14		0.1	6.63	22.1	1.23	-119.3	0.38	6.84	cloudy	
1350	18.14		1.0	6.42	23.0	1.17	-116.7	0.34	570	" reduce	
1355	18.15		1.5	6.45	23.4	1.17	-117.6	0.36	319	clearing fls	
1400	18.13		1.8	6.45	24.4	1.16	-117.8	0.28	333	"	
1405	18.14		2.0	6.47	25.2	1.16	-115.8	0.30	267	"	
1410	18.14		2.2	6.47	26.4	1.17	-112.0	0.33	275	"	
1420	18.14		3.0	6.50	27.0	1.17	-105.1	0.23	150	"	
1425	18.16		3.5	6.55	25.9	1.16	-113.5	0.24	150	"	
1430	18.13		4.0	6.58	25.6	1.16	-113.3	0.25	155	"	
Observations											
Color:	Clear	Other (describe):	sl. cloudy								
Odor:	<input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes: Flushed out flow cell, waited 5 min for next reading											
Construction occurring - 10 feet from well at road (Doolittle Rd)											
Sample Date/Time: 4/21/97 / 1432											
Signed/Sampler: V.S.											

652 449

FIELD SAMPLING REPORT

LOCATION: <u>GMI-22-06 M</u>	PROJECT: <u>138681.AZ.04</u>																																			
SITE: <u>NAS FW JRB</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AIBO 11</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>X</u>																																			
END DEPTH _____																																				
GRAB () COMPOSITE ()	DATE: <u>4/21/98</u> TIME: <u>1432</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td><u>40ml</u></td><td><u>HCl</u></td><td></td><td><u>8260</u></td><td></td></tr> <tr><td>.</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40ml</u>	<u>HCl</u>		<u>8260</u>		.																								
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																
<u>40ml</u>	<u>HCl</u>		<u>8260</u>																																	
.																																				
NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>0 ppm</u>	COLOR:																																			
2nd <u>0</u>	ODOR: <u>none</u>																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION <u>W</u>	AMBIENT TEMP <u>65</u>																																	
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Paragon Analytical</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>H. S. S. Firm</u>	OBSERVER: <u>K. Swanson</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB																																	
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER																																	
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER																																	
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH																																	
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON																																	
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

116523450

Well Number: GNT 2207m		Site: NTS PW SRB								
Field Crew: D. Hubler, M. Phillips		Date: 4-22-98								
Depth (ft.): 10.50		Initial D.O. Profile:								
DTW (ft.)	14.78	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 10.5-20.5										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 18										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
15:55	15.80		.1	6.86	21.5	.576	199.7	4.70	256	Cloudy
16:00	15.80		.5	6.70	21.4	.574	206.0	5.52	242	Cloudy
16:05	15.80		.8	6.44	23.0	.555	201.0	4.36	201	Cloudy
16:10	15.60		1.1	6.53	24.5	.552	203.0	3.86	191	Sl. Cloudy
16:15	15.50		1.4	6.60	25.9	.548	205.0	3.42	171	Sl. Cloudy
16:20	15.45		1.7	6.72	26.5	.551	206.0	3.41	165	Sl. Cloudy
16:25	15.45		1.9	6.76	27.2	.550	190.5	3.16	109	Clearing
16:30	15.40		2.2	6.77	27.3	.552	188.0	3.09	136	Clearing
16:35	15.45		3.0	6.77	27.8	.549	182.0	3.14	138	Clearing
10	15.45		3.6	6.78	27.8	.551	179.0	3.16	141	Clearing
<i>(Handwritten notes: 15.70, 15.75, 15.80, 15.85, 15.90, 15.95, 16.00, 16.05, 16.10, 16.15, 16.20, 16.25, 16.30, 16.35, 16.40, 16.45, 16.50, 16.55, 16.60, 16.65, 16.70, 16.75, 16.80, 16.85, 16.90, 16.95, 17.00, 17.05, 17.10, 17.15, 17.20, 17.25, 17.30, 17.35, 17.40, 17.45, 17.50, 17.55, 17.60, 17.65, 17.70, 17.75, 17.80, 17.85, 17.90, 17.95, 18.00, 18.05, 18.10, 18.15, 18.20, 18.25, 18.30, 18.35, 18.40, 18.45, 18.50, 18.55, 18.60, 18.65, 18.70, 18.75, 18.80, 18.85, 18.90, 18.95, 19.00, 19.05, 19.10, 19.15, 19.20, 19.25, 19.30, 19.35, 19.40, 19.45, 19.50, 19.55, 19.60, 19.65, 19.70, 19.75, 19.80, 19.85, 19.90, 19.95, 20.00, 20.05, 20.10, 20.15, 20.20, 20.25, 20.30, 20.35, 20.40, 20.45, 20.50, 20.55, 20.60, 20.65, 20.70, 20.75, 20.80, 20.85, 20.90, 20.95, 21.00, 21.05, 21.10, 21.15, 21.20, 21.25, 21.30, 21.35, 21.40, 21.45, 21.50, 21.55, 21.60, 21.65, 21.70, 21.75, 21.80, 21.85, 21.90, 21.95, 22.00, 22.05, 22.10, 22.15, 22.20, 22.25, 22.30, 22.35, 22.40, 22.45, 22.50, 22.55, 22.60, 22.65, 22.70, 22.75, 22.80, 22.85, 22.90, 22.95, 23.00, 23.05, 23.10, 23.15, 23.20, 23.25, 23.30, 23.35, 23.40, 23.45, 23.50, 23.55, 23.60, 23.65, 23.70, 23.75, 23.80, 23.85, 23.90, 23.95, 24.00, 24.05, 24.10, 24.15, 24.20, 24.25, 24.30, 24.35, 24.40, 24.45, 24.50, 24.55, 24.60, 24.65, 24.70, 24.75, 24.80, 24.85, 24.90, 24.95, 25.00, 25.05, 25.10, 25.15, 25.20, 25.25, 25.30, 25.35, 25.40, 25.45, 25.50, 25.55, 25.60, 25.65, 25.70, 25.75, 25.80, 25.85, 25.90, 25.95, 26.00, 26.05, 26.10, 26.15, 26.20, 26.25, 26.30, 26.35, 26.40, 26.45, 26.50, 26.55, 26.60, 26.65, 26.70, 26.75, 26.80, 26.85, 26.90, 26.95, 27.00, 27.05, 27.10, 27.15, 27.20, 27.25, 27.30, 27.35, 27.40, 27.45, 27.50, 27.55, 27.60, 27.65, 27.70, 27.75, 27.80, 27.85, 27.90, 27.95, 28.00, 28.05, 28.10, 28.15, 28.20, 28.25, 28.30, 28.35, 28.40, 28.45, 28.50, 28.55, 28.60, 28.65, 28.70, 28.75, 28.80, 28.85, 28.90, 28.95, 29.00, 29.05, 29.10, 29.15, 29.20, 29.25, 29.30, 29.35, 29.40, 29.45, 29.50, 29.55, 29.60, 29.65, 29.70, 29.75, 29.80, 29.85, 29.90, 29.95, 30.00, 30.05, 30.10, 30.15, 30.20, 30.25, 30.30, 30.35, 30.40, 30.45, 30.50, 30.55, 30.60, 30.65, 30.70, 30.75, 30.80, 30.85, 30.90, 30.95, 31.00, 31.05, 31.10, 31.15, 31.20, 31.25, 31.30, 31.35, 31.40, 31.45, 31.50, 31.55, 31.60, 31.65, 31.70, 31.75, 31.80, 31.85, 31.90, 31.95, 32.00, 32.05, 32.10, 32.15, 32.20, 32.25, 32.30, 32.35, 32.40, 32.45, 32.50, 32.55, 32.60, 32.65, 32.70, 32.75, 32.80, 32.85, 32.90, 32.95, 33.00, 33.05, 33.10, 33.15, 33.20, 33.25, 33.30, 33.35, 33.40, 33.45, 33.50, 33.55, 33.60, 33.65, 33.70, 33.75, 33.80, 33.85, 33.90, 33.95, 34.00, 34.05, 34.10, 34.15, 34.20, 34.25, 34.30, 34.35, 34.40, 34.45, 34.50, 34.55, 34.60, 34.65, 34.70, 34.75, 34.80, 34.85, 34.90, 34.95, 35.00, 35.05, 35.10, 35.15, 35.20, 35.25, 35.30, 35.35, 35.40, 35.45, 35.50, 35.55, 35.60, 35.65, 35.70, 35.75, 35.80, 35.85, 35.90, 35.95, 36.00, 36.05, 36.10, 36.15, 36.20, 36.25, 36.30, 36.35, 36.40, 36.45, 36.50, 36.55, 36.60, 36.65, 36.70, 36.75, 36.80, 36.85, 36.90, 36.95, 37.00, 37.05, 37.10, 37.15, 37.20, 37.25, 37.30, 37.35, 37.40, 37.45, 37.50, 37.55, 37.60, 37.65, 37.70, 37.75, 37.80, 37.85, 37.90, 37.95, 38.00, 38.05, 38.10, 38.15, 38.20, 38.25, 38.30, 38.35, 38.40, 38.45, 38.50, 38.55, 38.60, 38.65, 38.70, 38.75, 38.80, 38.85, 38.90, 38.95, 39.00, 39.05, 39.10, 39.15, 39.20, 39.25, 39.30, 39.35, 39.40, 39.45, 39.50, 39.55, 39.60, 39.65, 39.70, 39.75, 39.80, 39.85, 39.90, 39.95, 40.00, 40.05, 40.10, 40.15, 40.20, 40.25, 40.30, 40.35, 40.40, 40.45, 40.50, 40.55, 40.60, 40.65, 40.70, 40.75, 40.80, 40.85, 40.90, 40.95, 41.00, 41.05, 41.10, 41.15, 41.20, 41.25, 41.30, 41.35, 41.40, 41.45, 41.50, 41.55, 41.60, 41.65, 41.70, 41.75, 41.80, 41.85, 41.90, 41.95, 42.00, 42.05, 42.10, 42.15, 42.20, 42.25, 42.30, 42.35, 42.40, 42.45, 42.50, 42.55, 42.60, 42.65, 42.70, 42.75, 42.80, 42.85, 42.90, 42.95, 43.00, 43.05, 43.10, 43.15, 43.20, 43.25, 43.30, 43.35, 43.40, 43.45, 43.50, 43.55, 43.60, 43.65, 43.70, 43.75, 43.80, 43.85, 43.90, 43.95, 44.00, 44.05, 44.10, 44.15, 44.20, 44.25, 44.30, 44.35, 44.40, 44.45, 44.50, 44.55, 44.60, 44.65, 44.70, 44.75, 44.80, 44.85, 44.90, 44.95, 45.00, 45.05, 45.10, 45.15, 45.20, 45.25, 45.30, 45.35, 45.40, 45.45, 45.50, 45.55, 45.60, 45.65, 45.70, 45.75, 45.80, 45.85, 45.90, 45.95, 46.00, 46.05, 46.10, 46.15, 46.20, 46.25, 46.30, 46.35, 46.40, 46.45, 46.50, 46.55, 46.60, 46.65, 46.70, 46.75, 46.80, 46.85, 46.90, 46.95, 47.00, 47.05, 47.10, 47.15, 47.20, 47.25, 47.30, 47.35, 47.40, 47.45, 47.50, 47.55, 47.60, 47.65, 47.70, 47.75, 47.80, 47.85, 47.90, 47.95, 48.00, 48.05, 48.10, 48.15, 48.20, 48.25, 48.30, 48.35, 48.40, 48.45, 48.50, 48.55, 48.60, 48.65, 48.70, 48.75, 48.80, 48.85, 48.90, 48.95, 49.00, 49.05, 49.10, 49.15, 49.20, 49.25, 49.30, 49.35, 49.40, 49.45, 49.50, 49.55, 49.60, 49.65, 49.70, 49.75, 49.80, 49.85, 49.90, 49.95, 50.00, 50.05, 50.10, 50.15, 50.20, 50.25, 50.30, 50.35, 50.40, 50.45, 50.50, 50.55, 50.60, 50.65, 50.70, 50.75, 50.80, 50.85, 50.90, 50.95, 51.00, 51.05, 51.10, 51.15, 51.20, 51.25, 51.30, 51.35, 51.40, 51.45, 51.50, 51.55, 51.60, 51.65, 51.70, 51.75, 51.80, 51.85, 51.90, 51.95, 52.00, 52.05, 52.10, 52.15, 52.20, 52.25, 52.30, 52.35, 52.40, 52.45, 52.50, 52.55, 52.60, 52.65, 52.70, 52.75, 52.80, 52.85, 52.90, 52.95, 53.00, 53.05, 53.10, 53.15, 53.20, 53.25, 53.30, 53.35, 53.40, 53.45, 53.50, 53.55, 53.60, 53.65, 53.70, 53.75, 53.80, 53.85, 53.90, 53.95, 54.00, 54.05, 54.10, 54.15, 54.20, 54.25, 54.30, 54.35, 54.40, 54.45, 54.50, 54.55, 54.60, 54.65, 54.70, 54.75, 54.80, 54.85, 54.90, 54.95, 55.00, 55.05, 55.10, 55.15, 55.20, 55.25, 55.30, 55.35, 55.40, 55.45, 55.50, 55.55, 55.60, 55.65, 55.70, 55.75, 55.80, 55.85, 55.90, 55.95, 56.00, 56.05, 56.10, 56.15, 56.20, 56.25, 56.30, 56.35, 56.40, 56.45, 56.50, 56.55, 56.60, 56.65, 56.70, 56.75, 56.80, 56.85, 56.90, 56.95, 57.00, 57.05, 57.10, 57.15, 57.20, 57.25, 57.30, 57.35, 57.40, 57.45, 57.50, 57.55, 57.60, 57.65, 57.70, 57.75, 57.80, 57.85, 57.90, 57.95, 58.00, 58.05, 58.10, 58.15, 58.20, 58.25, 58.30, 58.35, 58.40, 58.45, 58.50, 58.55, 58.60, 58.65, 58.70, 58.75, 58.80, 58.85, 58.90, 58.95, 59.00, 59.05, 59.10, 59.15, 59.20, 59.25, 59.30, 59.35, 59.40, 59.45, 59.50, 59.55, 59.60, 59.65, 59.70, 59.75, 59.80, 59.85, 59.90, 59.95, 60.00, 60.05, 60.10, 60.15, 60.20, 60.25, 60.30, 60.35, 60.40, 60.45, 60.50, 60.55, 60.60, 60.65, 60.70, 60.75, 60.80, 60.85, 60.90, 60.95, 61.00, 61.05, 61.10, 61.15, 61.20, 61.25, 61.30, 61.35, 61.40, 61.45, 61.50, 61.55, 61.60, 61.65, 61.70, 61.75, 61.80, 61.85, 61.90, 61.95, 62.00, 62.05, 62.10, 62.15, 62.20, 62.25, 62.30, 62.35, 62.40, 62.45, 62.50, 62.55, 62.60, 62.65, 62.70, 62.75, 62.80, 62.85, 62.90, 62.95, 63.00, 63.05, 63.10, 63.15, 63.20, 63.25, 63.30, 63.35, 63.40, 63.45, 63.50, 63.55, 63.60, 63.65, 63.70, 63.75, 63.80, 63.85, 63.90, 63.95, 64.00, 64.05, 64.10, 64.15, 64.20, 64.25, 64.30, 64.35, 64.40, 64.45, 64.50, 64.55, 64.60, 64.65, 64.70, 64.75, 64.80, 64.85, 64.90, 64.95, 65.00, 65.05, 65.10, 65.15, 65.20, 65.25, 65.30, 65.35, 65.40, 65.45, 65.50, 65.55, 65.60, 65.65, 65.70, 65.75, 65.80, 65.85, 65.90, 65.95, 66.00, 66.05, 66.10, 66.15, 66.20, 66.25, 66.30, 66.35, 66.40, 66.45, 66.50, 66.55, 66.60, 66.65, 66.70, 66.75, 66.80, 66.85, 66.90, 66.95, 67.00, 67.05, 67.10, 67.15, 67.20, 67.25, 67.30, 67.35, 67.40, 67.45, 67.50, 67.55, 67.60, 67.65, 67.70, 67.75, 67.80, 67.85, 67.90, 67.95, 68.00, 68.05, 68.10, 68.15, 68.20, 68.25, 68.30, 68.35, 68.40, 68.45, 68.50, 68.55, 68.60, 68.65, 68.70, 68.75, 68.80, 68.85, 68.90, 68.95, 69.00, 69.05, 69.10, 69.15, 69.20, 69.25, 69.30, 69.35, 69.40, 69.45, 69.50, 69.55, 69.60, 69.65, 69.70, 69.75, 69.80, 69.85, 69.90, 69.95, 70.00, 70.05, 70.10, 70.15, 70.20, 70.25, 70.30, 70.35, 70.40, 70.45, 70.50, 70.55, 70.60, 70.65, 70.70, 70.75, 70.80, 70.85, 70.90, 70.95, 71.00, 71.05, 71.10, 71.15, 71.20, 71.25, 71.30, 71.35, 71.40, 71.45, 71.50, 71.55, 71.60, 71.65, 71.70, 71.75, 71.80, 71.85, 71.90, 71.95, 72.00, 72.05, 72.10, 72.15, 72.20, 72.25, 72.30, 72.35, 72.40, 72.45, 72.50, 72.55, 72.60, 72.65, 72.70, 72.75, 72.80, 72.85, 72.90, 72.95, 73.00, 73.05, 73.10, 73.15, 73.20, 73.25, 73.30, 73.35, 73.40, 73.45, 73.50, 73.55, 73.60, 73.65, 73.70, 73.75, 73.80, 73.85, 73.90, 73.95, 74.00, 74.05, 74.10, 74.15, 74.20, 74.25, 74.30, 74.35, 74.40, 74.45, 74.50, 74.55, 74.60, 74.65, 74.70, 74.75, 74.80, 74.85, 74.90, 74.95, 75.00, 75.05, 75.10, 75.15, 75.20, 75.25, 75.30, 75.35, 75.40, 75.45, 75.50, 75.55, 75.60, 75.65, 75.70, 75.75, 75.80, 75.85, 75.90, 75.95, 76.00, 76.05, 76.10, 76.15, 76.20, 76.25, 76.30, 76.35, 76.40, 76.45, 76.50, 76.55, 76.60, 76.65, 76.70, 76.75, 76.80, 76.85, 76.90, 76.95, 77.00, 77.05, 77.10, 77.15, 77.20, 77.25, 77.30, 77.35, 77.40, 77.45, 77.50, 77.55, 77.60, 77.65, 77.70, 77.75, 77.80, 77.85, 77.90, 77.95, 78.00, 78.05, 78.10, 78.15, 78.20, 78.25, 78.30, 78.35, 78.40, 78.45, 78.50, 78.55, 78.60, 78.65, 78.70, 78.75, 78.80, 78.85, 78.90, 78.95, 79.00, 79.05, 79.10, 79.15, 79.20, 79.25, 79.30, 79.35, 79.40, 79.45, 79.50, 79.55, 79.60, 79.65, 79.70, 79.75, 79.80, 79.85, 79.90, 79.95, 80.00, 80.05, 80.10, 80.15, 80.20, 80.25, 80.30, 80.35, 80.40, 80.45, 80.50, 80.55, 80.60, 80.65, 80.70, 80.75, 80.80, 80.85, 80.90, 80.95, 81.00, 81.05, 81.10, 81.15, 81.20, 81.25, 81.30, 81.35, 81.40, 81.45, 81.50, 81.55, 81.60, 81.65, 81.70, 81.75, 81.80, 81.85, 81.90, 81.95, 82.00, 82.05, 82.10, 82.15, 82.20, 82.25, 82.30, 82.35, 82.40, 82.45, 82.50, 82.55, 82.60, 82.65, 82.70, 82.75, 82.80, 82.85, 82.90, 82.95, 83.00, 83.05, 83.10, 83.15, 83.20, 83.25, 83.30, 83.35, 83.40, 83.45, 83.50, 83.55, 83.60, 83.65, 83.70, 83.75, 83.80, 83.85, 83.90, 83.95, 84.00, 84.05, 84.10, 84.15, 84.20, 84.25, 84.30, 84.35, 84.40, 84.45, 84.50, 84.55, 84.60, 84.65, 84.70, 84.75, 84.80, 84.85, 84.90, 84.95, 85.00, 85.05, 85.10, 85.</i>										

FIELD SAMPLING REPORT

LOCATION: <u>GMI-22-07A</u>	PROJECT: <u>138681.AC.04</u>																																			
SITE: <u>NAS FW JCB</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AHB020</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: _____																																			
BEGINNING DEPTH <u>18</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO ()																																			
END DEPTH <u>18</u>																																				
GRAB () COMPOSITE ()	DATE: <u>4-22-98</u> TIME: <u>1650</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td>VOCs</td><td>3260</td></tr> <tr><td></td><td></td><td></td><td>TOC</td><td>9060</td></tr> <tr><td></td><td></td><td></td><td>4056 / 310.</td><td>ATC / Anions</td></tr> <tr><td></td><td></td><td></td><td>9060</td><td>Cations</td></tr> <tr><td></td><td></td><td></td><td>8146</td><td>Co2+</td></tr> <tr><td></td><td></td><td></td><td>4211</td><td>Cu2+</td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS				VOCs	3260				TOC	9060				4056 / 310.	ATC / Anions				9060	Cations				8146	Co2+				4211	Cu2+
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NOTABLE OBSERVATIONS																																				
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>0</u>	COLOR:																																			
2nd <u>0</u>	ODOR:																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUNCLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP <u>75°</u>																																	
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Paragon</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>Mike Phillips</u>	OBSERVER: _____																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

L.L. 652-1452

Well Number: HM-96		Site: NAS FW URB									
Field Crew: K. Swanson, S. Finn		Date: 4/25/98									
Depth (ft.):	54'	Initial D.O. Profile:									
DTW (ft.)	27.62	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	24'-54'										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	45'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0922	27.66		0.1	6.72	20.8	*	58.3	1.67	16	clear	
0925	27.67		0.6	6.72	20.9		64.9	1.09	15	"	
0930	27.67		0.8	6.71	21.2		63.1	0.82	17	"	
0940	27.65		1.5	6.70	21.9	0.669	63.6	0.80	9	"	
0945	27.65		1.8	6.68	22.4	0.669	62.4	0.58	7	"	
0950	27.65		2.0	6.69	22.4	0.667	60.2	0.57	7	"	
0955	27.65		2.5	6.69	22.8	0.657	57.4	0.56	5	"	
1000	27.65		2.8	6.70	23.1	0.651	56.8	0.65	4	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	<input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes: * Conductivity still reading 0.002 mS/cm, switched off meters w/ M. Phillips team @ 0940											
Sample Date/Time: 4/25/98 / 1002											
Signed/Sampler: R. Swanson											

FIELD SAMPLING REPORT

LOCATION: <u>HM 96</u>	PROJECT: <u>138631 AZ.04</u>																																								
SITE: <u>NAS FW JRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>AIB056</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>4/25/98</u> TIME: <u>1002</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td><u>40 ml</u></td><td><u>HCl</u></td><td></td><td><u>B660</u></td><td><u>VDCS</u></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40 ml</u>	<u>HCl</u>		<u>B660</u>	<u>VDCS</u>																														
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NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>18.1</u>	COLOR: <u>clear</u>																																								
2nd <u>10.0</u>	ODOR: <u>none</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																						
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Pavagon</u>																																									
COMMENTS: <u>+1</u>																																									
SAMPLER: <u>S. Finn</u>	OBSERVER: <u>K. Sisson</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652 451
171 S. Rd

Well Number: AM-116		Site: NAS AOCZ									
Field Crew: B. Habler / Mike Phillips		Date: 4-24-98									
Depth (ft.):	33'	Initial D.O. Profile:									
DTW (ft.)	20.55	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	23 - 33'										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	31'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
16:10	20.75	58	.1	6.87	21.0	.589	192.7	3.02	41	clear	
16:15	20.90		.4	6.80	21.5	.589	200.	2.96	24	"	
16:20	20.90		.4	6.80	22.6	.585	201.0	2.90	21	"	
16:25	20.90		1.3	6.79	22.4	.590	197.0	2.56	24	"	
16:30	20.90		1.5	6.80	22.5	.589	195.0	2.47	20	"	
16:35	20.90		1.7	6.80	22.7	.589	197.1	2.44	19	"	
16:40	20.90		2.0	6.80	22.9	.589	197.4	2.41	18	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOLs										
Notes:											
Sample Date/Time:	4-24-98 16:45										
Signed/Sampler:	Mike Phillips										

FIELD SAMPLING REPORT

LOCATION: <u>HM-116</u>	PROJECT: <u>138681.42.04</u>																																								
SITE: <u>NAS AOGZ</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A1B049</u>																																								
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																								
BEGINNING DEPTH <u>31'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>99</u>																																								
END DEPTH <u>31'</u>																																									
GRAB () COMPOSITE ()	DATE: <u>4-24-98</u> TIME: <u>16:45</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr> <td><u>40 MI</u></td> <td><u>HCl</u></td> <td></td> <td></td> <td><u>VOC</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40 MI</u>	<u>HCl</u>			<u>VOC</u>																														
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>0</u>	COLOR: <u>clear</u>																																								
2nd <u>0</u>	ODOR: <u>none</u>																																								
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WEATHER: SUN/CLEAR <input checked="" type="checkbox"/> OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																							
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/> HAND DELIVER _____	COURIER _____	OTHER _____																																							
SHIPPED TO: <u>Paragon</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>W.L. Phillips</u>	OBSERVER: _____																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652, 456

Well Number: HM-117		Site: NAS RW JRB								
Field Crew: K Swanson, S. Dunn		Date: 4/24/98								
Depth (ft.): 37.5		Initial D.O. Profile:								
DTW (ft.) 19.56		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 18.5 - 38.5										
Well Diameter (in.) 4"										
Placement of Pump (ft.) 35'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1635	19.58		0.1	6.75	23.6	0.747	-76.1	0.84	9	clear
1640	19.58		0.5	6.66	24.0	0.743	-97.4	0.86	6	"
1645	19.58		1.0	6.70	24.9	0.745	-100.7	1.00	6	"
1650	19.58		1.4	6.72	25.0	0.742	-74.8	1.20	3	"
1655	19.58		1.8	6.73	25.4	0.739	-95.3	1.15	4	"
1700	19.58		2.0	6.74	25.5	0.737	-94.6	1.00	3	"
1705	19.58		2.4	6.74	25.7	0.734	-98.9	0.91	2	"
1710	19.58		2.8	6.74	25.7	0.734	-97.9	0.88	2	"
Observations										
Color: <input checked="" type="radio"/> Clear	Other (describe):									
Odor: <input checked="" type="radio"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs										
Notes: OVM = 0 μ m										
Sample Date/Time: 4/24/98 / 1710										
Signed/Sampler: K Swanson										

30 min

0.33 .80 6.51 4 gal 19.6 NL
 DO cond pH gal NL

FIELD SAMPLING REPORT

LOCATION: <u>HM-117</u>	PROJECT: <u>138681. A2.04</u>
SITE: <u>NAS FW JRB</u>	

SAMPLE INFORMATION					
MATRIX <u>WG</u>	SAMPLE ID: <u>AIB050</u>				
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: <u>—</u>				
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>				
END DEPTH _____					
GRAB () COMPOSITE ()	DATE: <u>4/24/98</u> TIME: <u>1710</u>				
CONTAINER	SIZE/TYPE #	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
<u>96ml</u>	<u>3</u>	<u>HCl</u>		<u>B260</u>	<u>VOCs</u>

NOTABLE OBSERVATIONS					
PID READINGS		SAMPLE CHARACTERISTICS			MISCELLANEOUS
1st	<u>0</u>	COLOR: <u>clear</u>			
2nd	<u>0</u>	ODOR: <u>none</u>			
		OTHER:			

GENERAL INFORMATION					
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN <input type="checkbox"/>	WIND DIRECTION <input type="checkbox"/>	AMBIENT TEMP <input type="checkbox"/>		
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER <input type="checkbox"/>	COURIER <input type="checkbox"/>	OTHER <input type="checkbox"/>		
SHIPPED TO: <u>Paragon</u>					
COMMENTS: _____					
SAMPLER: <u>S. Finn</u>	OBSERVER: <u>K. Swanson</u>				

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

n652 n458

Well Number:	HM-118	Site:	NAS FW JRB
Field Crew:	K. Swanson, S. Tim	Date:	4/24/98
Depth (ft.):	26.2	Initial D.O. Profile:	
DTW (ft.)	13.67	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.):	6 - 26		
Well Diameter (in.)	4"		
Placement of Pump (ft.)	24		

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) ms	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1323	13.70		0.1	6.53	21.3	1.65	-133.3	0.50	7	clear
1330	13.68		0.5	6.36	22.0	1.69	-121.1	0.50	1	"
1335	13.68		0.8	6.42	23.2	1.69	-125.4	0.47	4	"
1340	13.68		1.2	6.49	23.1	1.69	-122.1	0.60	5	"
1345	13.68		1.5	6.54	24.2	1.69	-125.1	0.71	3	"
1350	13.68		1.9	6.57	24.5	1.68	-123.3	0.59	2	"
1355	13.68		2.1	6.58	24.6	1.68	-121.7	0.65	2	"
1400	13.68		2.4	6.59	24.6	1.68	-129.9	0.58	1	"

Observations

Color: Clear **Other (describe):**

Odor: None Low Medium High Very Strong H₂S Fuel-Like

Sample Parameters: 100 s

Notes:

Sample Date/Time:

Signed/Sampler:

FIELD SAMPLING REPORT

LOCATION: <u>HDL-118</u>	PROJECT: <u>38691.AZ.64</u>																																								
SITE: <u>NAS FW CRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>AIB046</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: _____																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>4/24/18</u> TIME: <u>1400</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>90 ml</td><td>HCl</td><td></td><td>8160</td><td>Vocs</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	90 ml	HCl		8160	Vocs																														
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																					
90 ml	HCl		8160	Vocs																																					
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>0</u>	COLOR: <u>clear</u>																																								
2nd <u>0</u>	ODOR: <u>none</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																						
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Paragon Analytical</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>S. Finn</u>	OBSERVER: <u>J. Swan</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE ~ SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

1,652,460

Well Number: #M-119 S. Firm		Site: NAS FW JRB									
Field Crew: K. Swanson, C. Fitzgerald		Date: 4/25/98									
Depth (ft.):	29'	Initial D.O. Profile:									
DTW (ft.)	11.6048	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	9.29'										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0805	11.49		0.1	6.50	17.6	0.655	150.9	2.08	4	clear	
0810	11.49		0.4	6.66	18.5	0.653	123.0	0.78	6	"	
0815	11.49		1.0	6.66	19.5	*	75.3	0.80	3	"	
0825	11.49		1.8	6.64	20.8		85.0	0.42	4	"	
0830	11.49		2.2	6.65	21.2		78.5	0.34	4	"	
0835	11.49		2.5	6.67	21.7		69.3	0.38	1	"	
0840	11.49		2.8	6.67	21.8		69.5	0.34	2	"	
0845	11.49		3.1	6.68	22.4		63.7	0.30	3	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes: * conductivity not functioning. Cleaned probe and re-tried, still not functioning, reading 0.002 mS/cm. Will wait for other parameters to stabilize then sample.											
Sample Date/Time: 4/25/98 / 0848											
Signed/Sampler: CESin											

652 461

FIELD SAMPLING REPORT

LOCATION: <u>HU-119</u>	PROJECT: <u>138681.AZ.24</u>																																			
SITE: <u>NAS FW VRS</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AIB057</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u> </u>																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO(X)																																			
END DEPTH _____																																				
GRAB () COMPOSITE ()	DATE: <u>4/25/98</u> TIME: <u>0848</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>40 ml</td><td>HCl</td><td></td><td>8260</td><td>VOCs</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	40 ml	HCl		8260	VOCs																									
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
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2nd <u>O</u>	ODOR: <u>none</u>																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUNCLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN <input type="checkbox"/>	WIND DIRECTION <input type="checkbox"/>	AMBIENT TEMP <input type="checkbox"/>																																	
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER <input type="checkbox"/>	COURIER <input type="checkbox"/>	OTHER <input type="checkbox"/>																																	
SHIPPED TO: <u>Paragon</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>S.Finn</u>	OBSERVER: <u>J.Swans</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB																																	
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER																																	
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER																																	
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH																																	
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON																																	
		W=SWABWIPE	SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

.652. 462

FIELD SAMPLING REPORT

LOCATION: <u>HM-120</u>	PROJECT: <u>386 Bl. A 2.04</u>																																			
SITE: <u>NAS FW JRS</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>A1B025</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>—</u>																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (<u>X</u>)																																			
END DEPTH _____																																				
GRAB () COMPOSITE ()	DATE: <u>4/22/98</u> TIME: <u>1518</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER SIZE/TYPE #</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td>9066</td><td>TOC</td></tr> <tr><td>1</td><td></td><td></td><td>510.1/9056</td><td>Alk/Anions</td></tr> <tr><td>3</td><td></td><td></td><td>9260</td><td>VOCs</td></tr> <tr><td>1</td><td></td><td></td><td>6010</td><td>Cation⁺</td></tr> <tr><td>2</td><td></td><td></td><td>8146</td><td>Fe³⁺</td></tr> <tr><td>2</td><td></td><td></td><td>6211</td><td>CH₄</td></tr> </tbody> </table>		CONTAINER SIZE/TYPE #	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	1			9066	TOC	1			510.1/9056	Alk/Anions	3			9260	VOCs	1			6010	Cation ⁺	2			8146	Fe ³⁺	2			6211	CH ₄
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2nd <u>0 ppm</u>	ODOR:																																			
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WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																	
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Paragon / QAC</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>S. Fim</u>	OBSERVER: <u>K. Suer</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

1652, 164

652 465

FIELD SAMPLING REPORT

LOCATION: <u>HM-121</u>	PROJECT: <u>138681.A2.09</u>																																			
SITE: <u>NAS FW cIRB</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>A18026</u>																																			
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE																																			
END DEPTH _____	YES () NO <u>X</u>																																			
GRAB () COMPOSITE ()	DATE: <u>4/22/18</u> TIME: <u>14:17</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER SIZE/TYPE #</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td>9060</td><td>Tox</td></tr> <tr><td>1</td><td></td><td></td><td>6010</td><td>cations</td></tr> <tr><td>3</td><td></td><td></td><td>8260</td><td>VOCs</td></tr> <tr><td>1</td><td></td><td></td><td>310, 1/1052</td><td>ATk/Amino</td></tr> <tr><td>2</td><td></td><td></td><td>8146</td><td>Fe²⁺</td></tr> <tr><td>2</td><td></td><td></td><td>6211</td><td>CN⁺</td></tr> </tbody> </table>		CONTAINER SIZE/TYPE #	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	1			9060	Tox	1			6010	cations	3			8260	VOCs	1			310, 1/1052	ATk/Amino	2			8146	Fe ²⁺	2			6211	CN ⁺
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	OTHER:																																			
GENERAL INFORMATION																																				
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SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Persson / OAC</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>J. Fin</u>	OBSERVER: <u>K. Sauer</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
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Figure 1: Well Sampling Field Data Sheet

Well Number:	<u>HM 125</u>	Site:	<u>NAS Fort Worth TRB</u>							
Field Crew:	<u>M. Phillips, B. Hibley</u>	Date:	<u>4-24-98</u>							
Depth (ft.):	<u>33'</u>	Initial D.O. Profile:								
DTW (ft.)	<u>16.05</u>	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	<u>13' - 33'</u>									
Well Diameter (in.)	<u>4"</u>									
Placement of Pump (ft.)	<u>29'</u>									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
11:10	16.10		.1	6.89	21.8	472	*	3.84	78	CLEAR
11:15	16.20		1.1	6.95	22.7	470	*	3.61	71	CLEAR
11:20	16.20		1.5	6.95	22.9	471	*	3.78	73	CLEAR
11:25	16.20		1.8	6.95	23.6	468	*	3.95	99	CLEAR
11:30	16.20		2.0	6.95	23.6	470	*	3.65	100	CLEAR
11:35	16.20		2.3	6.95	24.0	471	*	3.46	100	CLEAR
11:40	16.20		2.5	6.94	24.1	469	*	3.12	105	CLEAR
11:45	16.20		2.7	6.95	24.2	464	*	2.89	100	CLEAR
11:50	16.20		3.0	6.95	24.7	465	*	2.92	110	CLEAR
11:55	16.20		3.2	6.95	24.7	467	*	2.88	109	CLEAR
			3.6	6.95	24.8	467	*	2.87	110	CLEAR
DO NOT USE										
Observations										
Color:	<input checked="" type="checkbox"/> Clear	Other (describe):								
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOLs									
Notes:	<u>*ORP - NOT Working</u>									
Sample Date/Time: <u>4-24-98 - 12:05</u>										
Signed/Sampler: <u>Mike Phillips</u>										

FIELD SAMPLING REPORT

LOCATION: <u>VH125</u>	PROJECT: <u>138681.AZ.04</u>																																								
SITE: <u>NAS Fort Worth, TRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A048</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>—</u>																																								
BEGINNING DEPTH <u>29'</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO(X)																																								
END DEPTH <u>29'</u>																																									
GRAB () COMPOSITE ()	DATE: <u>4-24-98</u> TIME: <u>12:05</u>																																								
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SHIPMENT VIA: FED-X <u>X</u> HAND DELIVER <u> </u> COURIER <u> </u> OTHER <u> </u>																																									
SHIPPED TO: <u>Paragon</u>																																									
COMMENTS: <u> </u>																																									
SAMPLER: <u>Mr. Phillips</u>	OBSERVER: <u> </u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNd WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

1. 652, 468

Well Number: LSA 16 28.3		Site: NAS AOC 2								
Field Crew: B. Haller / M. Phillips		Date: 4-22-98								
Total Depth (ft.): 17.93		Initial D.O. Profile:								
DW (ft.) 9.48		D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 8.5 - 18.5										
Well Diameter (in.) 4"										
Placement of Pump (ft.) 16'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
10:50	9.48		.1	6.52	20.6	.771	287	.05	25	clear
10:55	9.50		.9	6.79	21.1	.741	255	.17	32	clear
11:00	9.50		1.4	6.81	23.0	.745	253	.25	32	clear
11:05	9.50		1.8	6.82	23.4	.748	227	.19	33	clear
11:10	9.50		2.1	6.83	23.7	.750	210	.17	33	clear
11:15	9.50		2.5	6.84	24.0	.754	180	.14	35	clear
11:20	9.50		2.9	6.83	24.3	.766	125	.11	40	clear
11:25	9.50		3.1	6.83	24.1	.772	65.5	.10	31	clear
11:30	9.50		3.5	6.84	24.2	.779	54.1	.13	44	clear
11:35	9.50		3.9	6.84	24.2	.777	49.7	.14	38	clear
11:40	9.50		4.3	6.84	24.4	.779	48.7	.15	35	clear
<i>Handwritten notes: 11:40 9.50 6.84 24.4 .779 48.7 .15 35 clear</i>										
Observations										
Color: <u>Clear</u>	Other (describe):									
Odor: <u>None</u> Low Medium High Very Strong H2S Fuel-Like										
Sample Parameters:										
Notes:										
Sample Date/Time: 4-22-98 / 11:55										
Signed/Sampler: Mike Phillips										

FIELD SAMPLING REPORT

LOCATION: <u>NAS</u>	PROJECT: <u>138681.AZ.04</u>																																			
SITE: <u>LSA1628-3</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>AIA009</u>																																			
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																			
BEGINNING DEPTH <u>16</u>	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO (X)																																			
END DEPTH <u>16</u>																																				
GRAB () COMPOSITE ()	DATE: <u>4-22-97</u> TIME: <u>11:55</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td>8260</td><td>10CS</td></tr> <tr><td></td><td></td><td></td><td>9060</td><td>TAC</td></tr> <tr><td></td><td></td><td></td><td>310.1/908</td><td>ANALYSIS</td></tr> <tr><td></td><td></td><td></td><td>6211</td><td>CH4</td></tr> <tr><td></td><td></td><td></td><td>8146</td><td>1524</td></tr> <tr><td></td><td></td><td></td><td>0010</td><td>cations</td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS				8260	10CS				9060	TAC				310.1/908	ANALYSIS				6211	CH4				8146	1524				0010	cations
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			8146	1524																																
			0010	cations																																
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GENERAL INFORMATION																																				
WEATHER: SUNCLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																	
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Paragon</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>Mike Phillips</u>	OBSERVER: _____																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

, 652, 470

Well Number:	MW-3	S. Finn	Site: NAS FW JRB								
Field Crew:	K. Swanson, C. Fitzgerald	Date: 4/20/98									
Depth (ft.):	19.88	Initial D.O. Profile:									
DTW (ft.)	11.30	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	?										
Well Diameter (in.)	4"										
Placement of Pump (ft.)	16'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1358	11.38		0	6.78	20.9	0.700	-81.0	2.19	14	clear	
1402	11.65		0.2	6.74	22.4	0.746	-72.2	1.97	26	clear	
1407	11.65		1.0	6.66	23.0	0.747	-82.9	1.82	35	clear	
1412	11.69		1.5	6.64	23.3	0.748	-85.2	1.70	26	clear	
1417	11.68		2.0	6.64	23.3	0.748	-85.2	1.70	26	clear	
1422	11.68		2.6	6.63	23.5	0.748	-85.0	1.56	24	"	
1427	11.68		3.0	6.64	23.6	0.749	-81.2	1.54	26	"	
1432	11.68		3.6	6.65	23.8	0.750	-79.9	1.26	24	"	
1437	11.68		4.1	6.67	23.7	0.752	-78.9	1.67	24	"	
1432	11.68		5.0	6.71	23.9	0.751	-79.7	1.63	24	"	
1447	11.68		6.5	6.74	24.0	0.752	-84.4	1.25	26	"	
1452	11.68		6.0	6.97	24.0	0.752	-85.5	1.28	25	"	
1457	11.68		6.5	6.81	24.0	0.754	-82.5	1.37	25	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes:											
Sample Date/Time:		4/20/98	1458								
Signed/Sampler: K. Swanson											

FIELD SAMPLING REPORT

LOCATION: <u>MW-3</u>	PROJECT: <u>138681, A2.04</u>																																								
SITE: <u>NAS Fort Worth SR3</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>AJA003</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>4/20/98</u> TIME: <u>1458</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr> <td><u>40ml</u></td> <td><u>HCl</u></td> <td></td> <td><u>8260</u></td> <td><u>VOCs</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40ml</u>	<u>HCl</u>		<u>8260</u>	<u>VOCs</u>																														
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
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2nd <u>0 ppm</u>	ODOR: <u>none</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUNCLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																						
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Paragon Analytics</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>J. Fian</u>	OBSERVER: <u>J. Swanson</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUNDS WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652, 472

FIELD SAMPLING REPORT

LOCATION: <u>MW-3</u>	PROJECT: <u>138681, A2-04</u>																																			
SITE: <u>NAS FW VRB</u>																																				
SAMPLE INFORMATION																																				
MATRIX <u>WG</u>	SAMPLE ID: <u>A1B027</u>																																			
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																			
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO ()																																			
END DEPTH _____																																				
GRAB () COMPOSITE ()	DATE: <u>4/21/98</u> TIME: <u>1026</u>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER SIZE/TYPE</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>T25 ml</td><td>1</td><td>—</td><td>TOC</td><td>TOC</td></tr> <tr><td>350 ml</td><td>1</td><td>310.1/4056</td><td>A1h / Anions</td><td></td></tr> <tr><td>40 ml</td><td>3</td><td>6211</td><td>methane</td><td></td></tr> <tr><td>500 poly</td><td>1</td><td>4010</td><td>cations</td><td></td></tr> <tr><td>40 ml</td><td>2</td><td>814/6</td><td>Ferrous iron</td><td></td></tr> <tr><td>40 ml</td><td>3</td><td>8260</td><td>VOCs</td><td></td></tr> </tbody> </table>		CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	T25 ml	1	—	TOC	TOC	350 ml	1	310.1/4056	A1h / Anions		40 ml	3	6211	methane		500 poly	1	4010	cations		40 ml	2	814/6	Ferrous iron		40 ml	3	8260	VOCs	
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PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																		
1st <u>40 ppm</u>	COLOR: <u>clear</u>																																			
2nd <u>11 ppm</u>	ODOR: <u>none</u>																																			
	OTHER:																																			
GENERAL INFORMATION																																				
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																	
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____	OTHER _____																																	
SHIPPED TO: <u>Paragon / QAR</u>																																				
COMMENTS: _____																																				
SAMPLER: <u>S. Finn</u>	OBSERVER: <u>K. Swale</u>																																			
MATRIX TYPE CODES		SAMPLING METHOD CODES																																		
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB\WIPE	BR=BAILER CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB\WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																	

Figure 1: Well Sampling Field Data Sheet

16529474

Well Number:	MW-49	Site:	NAS FW JRB							
Field Crew:	K. Swanson, S. Finn	Date:	4/24/98							
Depth (ft.):	15.5	Initial D.O. Profile:								
DW (ft.)	9.32	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.)	4"									
Placement of Pump (ft.)	13'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1426	9.33		0	6.73	20.2	1.15	-153.2	0.60	17	clear
1430	9.35		0.4	6.74	20.4	1.16	-150.2	0.34	14	"
1435	9.35		0.7	6.77	21.7	1.16	-151.6	0.31	14	"
1440	9.35		1.1	6.82	22.9	1.17	-149.6	0.34	14	"
1445	9.33		1.4	6.86	23.2	1.17	-146.1	0.84	11	"
1450	9.35		1.6	6.86	23.2	1.17	-149.3	0.50	11	"
1455	9.34		1.8	6.88	23.9	1.17	-149.1	0.48	1	"
1500	9.34		2.0	6.86	23.3	1.20	-139.7	0.40	9	"
							-145.9			
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters:	VOC ₁									
Notes:										
Sample Date/Time:	4/24/98 / 1500									
Signed/Sampler:	K. Swanson									

FIELD SAMPLING REPORT

LOCATION: HW-49
SITE: NAS FW VRB

PROJECT: 138681.A2.04

SAMPLE INFORMATION

MATRIX W6

SAMPLE ID: A13044

SAMPLING METHOD SP

DUP/REP. OF : _____

BEGINNING DEPTH

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO

END DEPTH

GRAB() COMPOSITE()

DATE: 4/24/98 TIME: 1500

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40 ml	3	HCl		8260	VOC J

NOTABLE OBSERVATIONS

NOTABLE OBSERVATIONS		
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR:	
2nd	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN WIND DIRECTION AMBIENT TEMP

SHIPMENT VIA: FED-X HAND DELIVER COURIER OTHER

SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: S. Ann OBSERVER: H. Swan

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	SL=SLUDGE
WG=GROUND WATER	SO=SOIL
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER
SE=SEDIMENT	SW=SWABWIPE
	B=BAILER
	BR=BRASS RING
	CS=COMPOSITE SAMPLE
	C=CONTINUOUS FLIGHT AUGER
	DT=DRIVEN TUBE
	W=SWABWIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

652 476

178 973

Figure 1: Well Sampling Field Data Sheet

FIELD SAMPLING REPORT

LOCATION: <u>MW-57</u>	PROJECT: <u>138681, A2.04</u>																																								
SITE: <u>NAS Fort Worth JRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A1A041</u>																																								
SAMPLING METHOD <u>B</u>	DUP./REP. OF: _____																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <u>NO</u>																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>4/21/98</u> TIME: <u>1515</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER SIZE/TYPE</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>40ml</td><td>1L1</td><td></td><td>8260</td><td>VOCs</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	40ml	1L1		8260	VOCs																														
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1st	COLOR:																																								
2nd	ODOR:																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <u>X</u>	OVERCAST/RAIN _____	WIND DIRECTION _____	AMBIENT TEMP _____																																						
SHIPMENT VIA: FED-X <u>X</u>	HAND DELIVER _____	COURIER _____	OTHER _____																																						
SHIPPED TO: <u>Protagon Analytics</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>Mike Phillips</u>	OBSERVER: _____																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWABWIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWABWIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652-178

652 479

FIELD SAMPLING REPORT

LOCATION: MW-57B

PROJECT: 138681-A2.04

SITE: NAS FW JRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: A1B036

SAMPLING METHOD SP

DUP/REP. OF:

BEGINNING DEPTH

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH

YES () NO (X)

GRAB (Y) COMPOSITE ()

DATE: 4-23-98 TIME: 1423

CONTAINER SIZE/TYPE	PRESERVATIVE PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
			8260	VOCs
			9456/J10.1	Alk/Alums
			1060	TBC
			6411	Cd/Hg
			8146	Fe/Zn
			6010	Cations

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 8	COLOR: Clear	
2nd 8	ODOR: None	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: _____

COMMENTS: _____

SAMPLER: Mike Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUNDS WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWAB/WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

1652 180
14457

Well Number:	SPOT-35-4	Site:	NAS Fort Worth T28
Field Crew:	B. Lubler / Mike Phillips	Date:	4-23-98
Depth (ft.):	26.3	Initial D.O. Profile:	
DTW (ft.)	19.75	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.):	14.3 - 24.3		
Well Diameter (in.)	2"		
Placement of Pump (ft.)	23'		

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
11:20	20.4	.1	6.52	22.5	1.27	-106.8	.71	155	Sl. Cloudy	
		Pump cut out								
11:30	20.4	.5	6.59	23.5	1.23	-113.0	.40	999	Sl. Cloudy	
11:35	20.6	.9	6.61	25.1	1.19	-116.5	.36	199	"	
11:40	20.8	1.3	6.64	25.8	1.10	-117.5	.11	999	"	
11:45	20.8	1.6	6.65	26.5	1.06	-119.0	.15	985	"	
11:50	20.5	2.0	6.61	26.4	.972	-127	.19	999	"	
11:55	20.4	2.3	6.64	26.1	.991	-119.0	.24	999	"	
12:00	20.5	2.6	6.65	25.7	.998	-119.0	.37	999	"	
12:05	20.5	3.1	6.67	25.8	.984	-120.0	.23	824	"	
12:10	20.5	3.8	6.69	25.8	.970	-120.4	.14	653	"	
12:15	20.5	3.0	6.70	26.4	.961	-120.5	.12	573	Sl. Cloudy	
12:20	20.5	4.4	6.71	27.2	.910	-120.0	.14	429	Sl. Cloudy	
12:25	20.5	4.9	6.71	27.7	.915	-121.3	.17	352	Sl. Cloudy	
12:30	20.5	5.3	6.71	28.0	.914	-121.1	.17	341	Sl. Cloudy	
12:35	20.5	5.8	6.71	28.1	.913	-121.2	.17	334	Sl. Cloudy	

Observations

Color:	Clear	Other (describe):
Odor:	Low	Medium
<input checked="" type="checkbox"/> High <input type="checkbox"/> Very Strong <input type="checkbox"/> H2S <input checked="" type="checkbox"/> Fuel-Like		
Sample Parameters:		
Notes: * After 1 set of readings pump cut out		
Sample Date/Time: 4/23/98 - 12:45		
Signed/Sampler: Mike Phillips		

FIELD SAMPLING REPORT

LOCATION: Spot - 35-4PROJECT: 133681 A2/04SITE: NAS Fort Worth TRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A18034SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 23'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()END DEPTH 23'

GRAB () COMPOSITE ()

DATE: 4-23-98 TIME: 12:45

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 ml	3	HCl	8260	10 C.S.

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>9</u>	COLOR: <u>SA. Cloudy</u>	
2nd <u>9</u>	ODOR: <u>High Fuel Like</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Pitcagon

COMMENTS: _____

SAMPLER: Mike Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUNd WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWAB/WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: USGS047	Site: NAS Fort Worth WRB									
Field Crew: M. Phillips / S. Gary	Date: 4-20-98									
Initial Depth (ft.): 25.5	Initial D.O. Profile:									
DTW (ft.) 17.60	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.): 15.5 - 25.5										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 21'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
14:02	17.60		0.1	7.08	21.4	518	-	-5.95	668	Cloudy
14:07	17.60		0.9	6.95	23.2	522	-	-4.51	640	Cloudy
14:12	17.60		1.5	6.98	23.5	524	-	-4.50	619	Cloudy
14:17	17.60		1.9	7.09	24.0	476	-	-5.56	985	Cloudy
14:22	17.61		2.2	7.11	24.5	492	-	-5.17	747	Cloudy
14:27	17.61		2.2	7.11	24.6	493	-	-5.17	654	Cloudy
14:32	17.61		2.7	7.11	24.7	493	-	-5.13	653	Cloudy
14:37	17.61		2.8	7.11	25.1	494	-	-5.13	853	Cloudy
14:42	17.61		2.9	7.12	25.3	495	-	-5.12	628	Cloudy
14:47	17.61		3.0	7.12	25.5	491	-	-5.10	588	Cloudy
14:52	17.60		3.2	7.12	25.6	491	-	-5.12	522	Cloudy
14:57	17.60		3.5	7.12	25.7	498	-	-4.95	476	Cloudy
15:02	17.60		3.7	7.12	25.8	498	-	-5.09	420	Cloudy
15:07	17.60		3.9	7.12	25.7	487	-	-4.30	445	Cloudy
15:12	17.60		4.4	7.14	23.0	655	-	-0.35	478	Cloudy
15:17	17.60		4.8	7.15	23.0	654	-	0.47	427	Cloudy
15:22	17.60		5.1	7.16	22.9	651	-	0.56	381	Cloudy
Observations										
Color: Clear	Other (describe):									
Odor: None Low Medium High Very Strong H2S Fuel-Like										
Sample Parameters:										
Notes: * CHANGED out Horiba with Team 1 DO TO D.O. Readings @ 15:12										
Sample Date/Time: 15:55 4/20/98										
Signed/Sampler: Mike Phillips										

Figure 1: Well Sampling Field Data Sheet

FIELD SAMPLING REPORT

LOCATION: <u>USE1504T</u>	PROJECT: <u>138681.A2.04</u>																																								
SITE: <u>NAS Fort Worth TRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A18004</u>																																								
SAMPLING METHOD <u>SP</u>	DUP./REP. OF: _____																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>4/20/98</u> TIME: <u>15:50</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td><u>40 mL</u></td><td><u>HCl</u></td><td><u>8260</u></td><td><u>101nt:105</u></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	<u>40 mL</u>	<u>HCl</u>	<u>8260</u>	<u>101nt:105</u>																															
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																					
<u>40 mL</u>	<u>HCl</u>	<u>8260</u>	<u>101nt:105</u>																																						
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>Ø</u>	COLOR: <u>Slightly cloudy</u>																																								
2nd <u>Ø</u>	ODOR: <u>None</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR _____ OVERCAST <input checked="" type="checkbox"/> RAIN <input type="checkbox"/> WIND DIRECTION _____ AMBIENT TEMP <u>68°</u>																																									
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/> HAND DELIVER _____ COURIER _____ OTHER _____																																									
SHIPPED TO: <u>Paragon Analytics Inc</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>S. Gary</u>	OBSERVER: <u>Mk Phillips</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS WG=GROUND WATER LH=HAZARDOUS LIQUID WASTE SH=HAZARDOUS SOLID WASTE SE=SEDIMENT	SL=SLUDGE SO=SOIL GS=SOIL GAS WS=SURFACE WATER SW=SWAB/WIPE	B=BAILER BR=BRASS RING CS=COMPOSITE SAMPLE C=CONTINUOUS FLIGHT AUGER DT=DRIVEN TUBE W=SWAB/WIPE	G=GRAB HA=HAND AUGER H=HOLLOW STEM AUGER HP=HYDRO PUNCH SS=SPLIT SPOON SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

1652c, 4.85

Well Number: WCHMHTA 001		Site: NAS JRB								
Field Crew: K. Swanson S. Finn M.L.P.		Date: 4/23/98								
Depth (ft.): 46'		Initial D.O. Profile:								
DTW (ft.)	35.53	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.): 26'-46'										
Well Diameter (in.) 2"										
Placement of Pump (ft.) 43'										
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
15:30	25.55		.1	6.87	22.3	.631	149.7	2.05	999	Cloudy
15:35	25.55		.9	6.75	23.3	.626	149.3	1.57	999	Cloudy
15:40	25.56		1.3	6.72	24.8	.631	148.7	1.46	999	"
15:45	25.56		2.2	6.71	24.8	.639	148.3	1.34	999	"
15:50	25.52		2.8	6.70	25.1	.641	146.3	1.34	999	"
15:55	25.56		3.5	6.69	25.2	.644	148.7	1.27	889	"
16:00	25.56		4.0	6.69	25.3	.645	127.5	1.28	999	"
16:05	25.52		4.5	6.69	25.4	.649	125.0	1.30	885	"
16:10	25.56		5.0	6.69	25.4	.651	123.0	1.81	875	"
16:15	25.56		5.4	6.67	25.4	.650	122.1	1.29	872	"
16:20	25.56		5.9	6.68	25.4	.651	121.0	1.27	871	"
Observations										
Color: <input checked="" type="checkbox"/> Clear Other (describe):										
Odor: <input checked="" type="checkbox"/> None Low Medium High Very Strong H2S Fuel-Like										
Sample Parameters:										
Notes:										
44										
Sample Date/Time: 4-23-98 16:30										
Signed/Sampler: Mike Thibault										

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FIELD SAMPLING REPORT

LOCATION: WCHM HTA001

PROJECT: 138681, A2.0c1

SITE: NAS FW JRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: AIB037

SAMPLING METHOD SP

DUP./REP. OF:

BEGINNING DEPTH 43'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 43'

YES () NO (x)

GRAB () COMPOSITE ()

DATE: 4-23-98 TIME: 1630

CONTAINER SIZE/TYPE	#	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
				8260	TOCs
				9060	TDC
				1086/310.1	ATV / Anions
				6211	CH4
				8146	F224
				6016	Cation

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st Ø	COLOR:	
2nd Ø	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN ____ WIND DIRECTION ____ AMBIENT TEMP ____

SHIPMENT VIA: FED-X X HAND DELIVER ____ COURIER ____ OTHER ____

SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: Mike Phillips

OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES		
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB	
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER	
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER	
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH	
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON	
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP	

Figure 1: Well Sampling Field Data Sheet

Well Number: WC HM HTA 002		Site: NAS F.N. TRB								
Field Crew: B. Hauer / M. Phillips		Date: 4-24-98								
Depth (ft.):	42	Initial D.O. Profile:								
DTW (ft.)	18.7	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	22 - 42									
Well Diameter (in.)	24									
Placement of Pump (ft.)	40									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
15:00	18.80		.1	6.95	22.5	.546	228	3.94	657	Cloudy
15:05	18.80		.3	6.85	22.4	.554	268	3.72	653	Cloudy
15:10	18.80		.8	6.68	23.7	.554	256	3.78	596	cloudy
15:15	18.80		1.1	6.69	23.1	.569	246	3.46	737	"
15:20	18.80		2.8	6.69	23.2	.592	238	3.40	594	"
15:25	18.80		2.8	6.67	23.2	.572	234	3.24	484	"
15:30	18.80		2.8	6.67	23.2	.593	230	3.03	457	clearing
15:35	18.80		3.2	6.64	23.0	.593	205	3.04	191	clearing
15:40	18.80		4.1	6.69	22.9	.593	203	3.00	169	clear
15:45	18.80		4.6	6.69	22.9	.593	201	2.99	141	clear
15:50	18.80		5.1	6.70	23.0	.592	202	2.98	146	clear
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: JCS										
Notes:										
Sample Date/Time: 4-24-98 15:55										
Signed/Sampler: Mike Phillips										

FIELD SAMPLING REPORT

LOCATION 6C14M HTA002PROJECT: 138681.AZ.04SITE: NAS AOC 2

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIB033SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 40'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 40'

YES () NO (x)

GRAB () COMPOSITE ()

DATE: 4-24-98 TIME: 15:55

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40M	3	HCC	8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st O	COLOR: clear	
2nd D	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: Nate Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUNd WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=SOIL GAS
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER
SE=SEDIMENT	SW=SWABWIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	C=CONTINUOUS FLIGHT AUGER
	HP=HYDRO PUNCH
	DT=DRIVEN TUBE
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: <u>WC 15M HTA 003</u>	Site: <u>AOLZ</u>
Field Crew: <u>B. Haiger, M. Phillips</u>	Date: <u>4-25-98</u>
Depth (ft.): <u>28</u>	Initial D.O. Profile:
DTW (ft.) <u>19.10</u>	D.O. (mg/l)
Depth of screen (ft.): <u>18 - 28</u>	Depth to water (ft.)
Well Diameter (in.) <u>2"</u>	
Placement of Pump (ft.) <u>15</u>	

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
08:45	19.40		.1	7.03	20.8	.525	210	2.72	73	Clear
08:50	19.45		1.1	7.00	22.5	.452	213	2.91	64	"
08:55	19.45		1.6	7.01	23.6	.450	210	2.93	65	"
09:00	19.45		2.2	7.01	23.4	.449	207	2.94	56	"
09:05	19.46		2.7	7.01	24.0	.462	207	2.94	69	"
09:15	19.45		3.1	7.01	24.1	.469	205	2.94	70	"
09:20	19.45		3.6	24.2	24.2	.470	205	2.93	72	"
09:25			7.00							

Observations

Color: Clear Other (describe):Odor: None Low Medium High Very Strong H2S Fuel-LikeSample Parameters: VOLs

Notes:

Sample Date/Time: 4-25-98 - 09:25Signed/Sampler: Miko Phillips

FIELD SAMPLING REPORT

LOCATION: WC HM HT A003PROJECT: 138681 . A2 04SITE: NAS Fort Worth JRD

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1 A025^{B054}SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 25

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 25YES () NO X

GRAB () COMPOSITE ()

DATE: 4-25-98 TIME: 0925

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
40ML	HCl	E260	UV C	

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR:	
2nd <u>0</u>	ODOR: <u>None</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: Nik Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	SL=SLUDGE
WG=GROUNd WATER	SO=SOIL
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER
SE=SEDIMENT	SW=SWABWIPE
	B=BAILER
	BR=BRASS RING
	CS=COMPOSITE SAMPLE
	C=CONTINUOUS FLIGHT AUGER
	DT=DRIVEN TUBE
	W=SWABWIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

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Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHTA004		Site: NAS AOC 2									
Field Crew: M. Phillips, B. Hubler		Date: 4-25-98									
Depth (ft.): 35'		Initial D.O. Profile:									
DTW (ft.)	19.34	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.)	28' - 38'										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	35'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
7:50	19.50		.1	6.73	20.6	.472	175.7	2.24	126	clear	
7:55	19.50		.8	6.82	21.3	.499	178.7	1.81	138	sl. cloudy	
08:00	19.5		1.3	6.80	21.7	.537	193.3	2.43	115	clearing	
08:05	19.5		1.8	6.81	22.2	.559	200	1.74	74	"	
08:10	19.5		2.2	6.81	22.8	.568	209	1.62	60	"	
08:15	19.5		2.9	6.82	23.6	.570	209	1.34	39	"	
08:20	19.5		3.2	6.82	23.1	.569	209	1.21	21	"	
08:25	19.5		3.6	6.82	23.2	.569	209	1.22	20	"	
08:30	19.5		4.1	6.82	23.5	.570	208	1.19	19	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	(None)	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	DOs										
Notes:											
Sample Date/Time:	4-25-98 - 8:35										
Signed/Sampler:	Mike Phillips										

FIELD SAMPLING REPORT

LOCATION: UX HMTA 004PROJECT: 138681 A 204SITE: AOC 2

SAMPLE INFORMATION

MATRIX WGSAMPLE ID A1A026 B055SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 35'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 35'

YES () NO (x)

GRAB () COMPOSITE ()

DATE: 4-25-98

TIME: _____

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40m	3	HCl	2260	DOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>wine</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: Mike Phillips OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES			
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB		
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER		
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER		
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH		
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON		
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP		

Figure 1: Well Sampling Field Data Sheet

Well Number Field Crew	Site: WAS Fort Worth JRB Date: 4-24-98										
Depth (ft.): DTW (ft.) Depth of screen (ft.): Well Diameter (in.) Placement of Pump (ft.)	Initial D.O. Profile:										
	D.O. (mg/l)	Depth to water (ft.)									
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
12:15	16.05		.1	7.03	22.6	.490	*	3.52	15	SL. Cloudy	
12:20	16.1		.6	7.03	23.7	.494	*	4.48	8	SL. Cloudy	
12:25	16.1		1.0	7.01	24.1	.501	*	4.05	102	SL. Cloudy	
12:30	16.1		1.3	7.03	25.9	.502	*	3.81	95	clearing	
12:35	16.1		1.6	7.01	27.4	.502	*	3.65	87	clearing	
12:40	16.1		2.0	7.01	28.6	.500	*	3.40	67	clear	
12:45	16.1		2.4	7.02	29.1	.501	*	3.40	64	clear	
12:50	16.1		2.7	7.01	29.3	.501	*	3.41	68	clear	
Observations											
Color:	Clear	Other (describe):									
Odor:	<input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters:	VOLs										
Notes:	* ORP Broke										
Sample Date/Time: 4-24-98 — 12:55											
Signed/Sampler: M.L. Phillips											

FIELD SAMPLING REPORT

LOCATION: WCHMHTA005PROJECT: 13881 A7.64SITE: NAS PWJRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIB047SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE () DATE: 4/24/98 TIME: 1255

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 ml	3	HCl	B160	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR: clear	
2nd	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: _____

COMMENTS: _____

SAMPLER: N. Phillips OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNDS WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB\WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB\WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

Well Number: WCHMHJA006		Site: MAS AOCZ								
Field Crew: B. Haefner / M. Phillips		Date: 4-24-98								
Depth (ft.):	36.5	Initial D.O. Profile:								
DTW (ft.)	16.18	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):	26' - 36'									
Well Diameter (in.)	2"									
Placement of Pump (ft.)	39'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
13:10	15.90		.1	6.99	23.7	.536	*	3.45	55	clear
13:15	15.90		.7	6.93	23.6	.538	*	3.49	65	clear
13:20	15.90		1.0	6.92	24.6	.538	*	3.39	64	clear
13:25	15.90	10	2.3	6.89	25.7	.538	*	3.05	69	clear
13:30	15.90		1.8	6.90	25.9	.543	*	2.55	33	" "
13:35	15.90		2.1	6.90	26.1	.545	*	2.59	28	"
13:40	15.90		2.5	6.90	26.5	.546	*	2.60	26	"
13:45	15.90		2.9	6.90	26.9	.547	*	2.55	22	"
13:50	15.90		3.2	6.91	27.0	.547	*	2.56	21	"
14:05	15.90		3.7	6.91	27.1	.547	*	2.56	22	"
Observations										
Color:	Clear	Other (describe):								
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like			
Sample Parameters: * ORP - Broke										
Notes:										
Sample Date/Time: 4-24-98 - 14:05										
Signed/Sampler: M. Phillips										

FIELD SAMPLING REPORT

LOCATION: WCHMHTAD06PROJECT: 138681.AZ.09SITE: NHS AOCZ

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIB02⁴⁹SAMPLING METHOD SP

DUP/REP. OF: _____

BEGINNING DEPTH 29'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()END DEPTH 29'GRAB COMPOSITE DATE: 4-24-98 TIME: 14:05

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 ml	3	HCl	D260	INC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR:	
2nd <u>0</u>	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: Mike Phillips OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BALER	G=GRAB
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWABIWIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652 S. 197

Well Number: NCH MHTA 007		Site: VAS FW JRB									
Field Crew: K. Swanson, S. Fin		Date: 4/24/98									
Depth (ft.):	52.5	Initial D.O. Profile:									
DTW (ft.)	13.43	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	12.5 - 32.5										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	30'										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
1055	13.45		1	6.66	22.0	0.6*	-141.3	3.17	1999	cloudy	
1100	13.45		1.0	6.82	22.9	0.6*	-141.0	3.50	1999	"	
1105	13.45		1.5	6.83	22.2	0.665	-136.0	3.51	885	"	
1110	13.47		2.0	6.83	24.7	0.666	-138.2	3.61	507	clearing	
1115	13.49		2.5	6.81	25.3	0.673	-137.4	3.51	329	"	
1120	13.44		2.3	6.83	25.4	0.675	-136.8	3.55	200	"	
1125	13.44		3.1	6.80	25.6	0.679	-136.2	3.45	135	clear	
1130	13.45		4.0	6.82	25.6	0.689	-138.6	3.33	119	flushed well	
1135	13.44		4.5	6.81	25.7	0.687	-141.7	3.32	106	clear	
1140	13.44		4.8	6.81	25.5	0.689	-139.7	3.32	69	"	
1145	13.44		5.1	6.80	25.8	0.685	-127.9	3.39	59	"	
1150	13.44		5.5	6.80	26.1	0.685	-139.7	3.42	48	"	
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOLC											
Notes: * meter not reading conductivity											
Sample Date/Time: 4/24/98 / 1150											
Signed/Sampler: KG											

FIELD SAMPLING REPORT

LOCATION: WCH MH TA 007

PROJECT: _____

SITE: NAC PW JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1B042SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO X

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 4/24/98 TIME: 1150

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
<u>40 ml</u>	<u>3</u>	<u>HCl</u>	<u>#8200</u>	<u>VOCS</u>

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: S. Finn OBSERVER: K Swanson

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUND WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWAB\WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652c499

Well Number:	WCHMHTA008	Site:	NAS FW JRB
Field Crew:	K. Swanson, S. Dunn	Date:	4/24/98
Depth (ft.):	25.0	Initial D.O. Profile:	
DrW (ft.)	12.38	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.):	10 - 25		
Well Diameter (in.)	2"		
Placement of Pump (ft.)	23'		

Field Parameters

Observations

Color: **Clear** **Other (describe):**

Odor: None Low Medium High Very Strong H₂S Fuel-Like

Sample Parameters: VOCs

Notes: VDCS

Sample Date/Time: 4/24/18 / 1555

Signed/Sampler:

652 500

FIELD SAMPLING REPORT

Figure 1: Well Sampling Field Data Sheet

652, 501
11/21/98

Well Number:	WCHMHTA 009	Site:	NAS FW JRB
Field Crew:	P. Swanson / S. Fink	Date:	4/21/98
Depth (ft.):	12.0	Initial D.O. Profile:	
DTW (ft.)	5.60	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.):	4.5-12		
Well Diameter (in.)	2"		
Placement of Pump (ft.)	11		

Field Parameters

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
1510			0							
1513	5.60		0.2	6.63	21.4	0.819	-105.2	0.73	1261	sl. cloudy
1518	5.58		1.0	6.70	23.1	0.870	-110.9	0.64	85	cloudy in
1523	5.64		1.3	6.75	24.1	0.827	-119.0	0.46	893	cloudy ^{not}
1528	5.64		1.8	6.73	24.5	0.823	-114.2	0.57	529	" *
1533	5.67		2.0	6.73	22.5	0.817	-130.8	0.50	270	clearing
1538	5.65		4.0	6.70	23.1	0.821	-113.1	0.30	185	"
1543	5.66		5.0	6.68	23.3	0.820	-107.7	0.25	140	" ↓ flow
1548	5.63		5.5	6.67	23.1	0.818	-103.4	0.20	152	"
1553	5.63		5.8	6.66	23.6	0.821	-109.4	0.18	85	clear
1558	5.63		6.0	6.69	24.7	0.800	-115.4	0.25	66	clear
1603	5.63		6.3	6.71	25.2	0.792	-113.2	0.29	65	clear
1608	5.63		6.5	6.73	25.3	0.785	-115.3	0.32	60	clear
1613	5.63		6.8	6.72	25.1	0.790	-100.3	0.28	5	"

Observations

Color: Clear Other (describe):Odor: None Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes: * flushed out flow cell, ↑ flow

Sample Date/Time: 4/21/98 / 1615

Signed/Sampler: D. Fink

FIELD SAMPLING REPORT

LOCATION: WICHITA O&GPROJECT: 138681-A2.04SITE: NAS FW VRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIBO 14SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH _____

YES NO

GRAB () COMPOSITE ()

DATE: 4/21/98 TIME: 1615

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40 ml	3	HCl	8260	VOCs

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 0 ppm	COLOR:	
2nd 0	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 65SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon Analytical

COMMENTS: _____

SAMPLER: S. Finn OBSERVER: K. Brown

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUNd WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWAB/WIPE

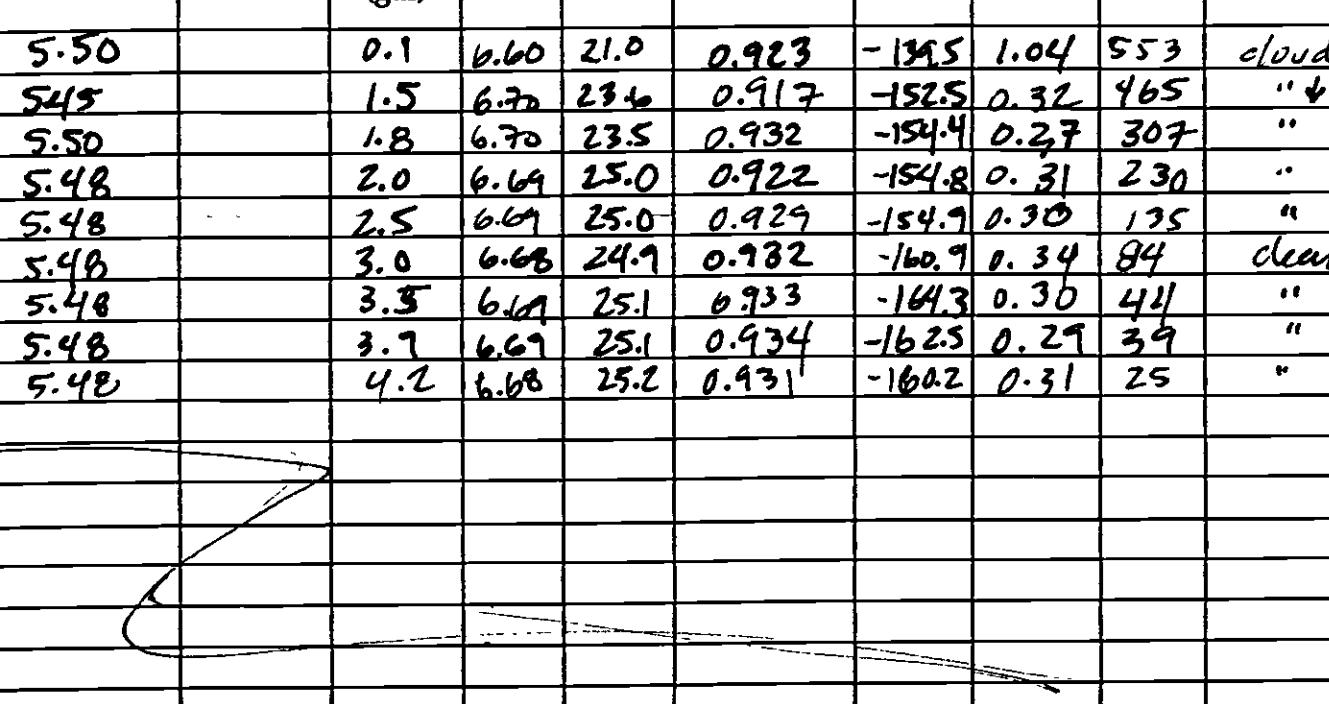
SAMPLING METHOD CODES

B=BAILER
 BR=BRASS RING
 CS=COMPOSITE SAMPLE
 C=CONTINUOUS FLIGHT AUGER
 DT=DRIVEN TUBE
 W=SWAB/WIPE

G=GRAB
 HA=HAND AUGER
 H=HOLLOW STEM AUGER
 HP=HYDRO PUNCH
 SS=SPLIT SPOON
 SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652 .503

Well Number: WCHMHTA010		Site: NAS FW JRB									
Field Crew: K Swanson, S. Fine		Date: 4/24/98									
Depth (ft.):	155	Initial D.O. Profile:									
DTW (ft.)	5.46	D.O. (mg/l)	Depth to water (ft.)								
Depth of screen (ft.):	15-25										
Well Diameter (in.)	2"										
Placement of Pump (ft.)	22										
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm) MS	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
0948	5.50		0.1	6.60	21.0	0.923	-139.5	1.04	553	cloudy	
0955	5.45		1.5	6.70	23.4	0.917	-152.5	0.32	465	" ↓ fl	
1000	5.50		1.8	6.70	23.5	0.932	-154.4	0.27	307	"	
1005	5.48		2.0	6.69	25.0	0.922	-154.8	0.31	230	"	
1010	5.48		2.5	6.69	25.0	0.929	-154.9	0.30	135	"	
1015	5.48		3.0	6.68	24.9	0.932	-160.9	0.34	84	clear	
1020	5.48		3.5	6.69	25.1	0.933	-164.3	0.30	411	"	
1025	5.48		3.7	6.69	25.1	0.934	-162.5	0.29	39	"	
1030	5.48		4.2	6.68	25.2	0.931	-160.2	0.31	25	"	
											
Observations											
Color:	Clear	Other (describe):									
Odor:	None	Low	Medium	High	Very Strong	H2S	Fuel-Like				
Sample Parameters: VOCs											
Notes: VOCs											
(B2 CPT location is ~327' NE of WCHMHTA010)											
Sample Date/Time:		4/24/98	/	1030							
Signed/Sampler: KES											

FIELD SAMPLING REPORT

LOCATION: WICHITA RIVERPROJECT: 138681.AZ.04SITE: NAS FW URB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A3041SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 4/24/98 TIME: 1030

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
40ml	3	HCl	8260	VOCS

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st 13.1 13.1	COLOR: clear	
2nd 13.6.0	ODOR: none	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR OVERCAST/RAIN _____ WIND DIRECTION S AMBIENT TEMP from _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon Analytic

COMMENTS: _____

SAMPLER: S. Finn OBSERVER: K. Sive

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUND WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWAB/WIPE

SAMPLING METHOD CODES

B=BAILER
 BR=BRASS RING
 CS=COMPOSITE SAMPLE
 C=CONTINUOUS FLIGHT AUGER
 DT=DRIVEN TUBE
 W=SWAB/WIPE

G=GRAB
 HA=HAND AUGER
 H=HOLLOW STEM AUGER
 HP=HYDRO PUNCH
 SS=SPLIT SPOON
 SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652.505

652 506

FIELD SAMPLING REPORT

LOCATION: <u>WCHM HTAON</u>	PROJECT: <u>138681.42.04</u>																																								
SITE: <u>NAS FW VRB</u>																																									
SAMPLE INFORMATION																																									
MATRIX <u>WG</u>	SAMPLE ID: <u>A13040</u>																																								
SAMPLING METHOD <u>SP</u>	DUP/REP. OF: <u>-</u>																																								
BEGINNING DEPTH _____	MATRIX SPIKE/MATRIX SPIKE DUPLICATE YES () NO <input checked="" type="checkbox"/>																																								
END DEPTH _____																																									
GRAB () COMPOSITE ()	DATE: <u>4/24/98</u> TIME: <u>0922</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CONTAINER</th> <th>PRESERVATIVE/ PREPARATION</th> <th>EXTRACTION METHOD</th> <th>ANALYTICAL METHOD</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr><td>40 ml</td><td>HCl</td><td></td><td>8260</td><td>VOCs</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS	40 ml	HCl		8260	VOCs																														
CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS																																					
40 ml	HCl		8260	VOCs																																					
NOTABLE OBSERVATIONS																																									
PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS																																							
1st <u>0</u>	COLOR: <u>clear</u>																																								
2nd <u>0</u>	ODOR: <u>none</u>																																								
	OTHER:																																								
GENERAL INFORMATION																																									
WEATHER: SUN/CLEAR <input checked="" type="checkbox"/>	OVERCAST/RAIN _____	WIND DIRECTION <u>5</u> from <u>from</u>																																							
SHIPMENT VIA: FED-X <input checked="" type="checkbox"/>	HAND DELIVER _____	COURIER _____ OTHER _____																																							
SHIPPED TO: <u>Paragon Analytic</u>																																									
COMMENTS: _____																																									
SAMPLER: <u>KR Sim</u>	OBSERVER: <u>L Edm</u>																																								
MATRIX TYPE CODES		SAMPLING METHOD CODES																																							
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB																																						
WG=GROUN WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER																																						
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER																																						
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH																																						
SE=SEDIMENT	SW=SWABWIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON																																						
		W=SWABWIPE	SP=SUBMERSIBLE PUMP																																						

Figure 1: Well Sampling Field Data Sheet

652 507

Well Number:	WL HM HTA 012	Site:	NAS ROC
Field Crew:	B. Habler / M. Phillips	Date:	4-22-98
Depth (ft.):		Initial D.O. Profile:	
DTW (ft.)	19.5	D.O. (mg/l)	Depth to water (ft.)
Depth of screen (ft.):	19.34		
Well Diameter (in.)	8.5 - 18.5		
Placement of Pump (ft.)	2"		
	16'		

Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	Field Parameters				ORP	D.O. (mg/L)	Turb N.T.U.	Description
				pH	Temp (C)	Cond. (umhos/cm)					
9:05	19.34		.4	6.80	26.2	1.05	-75.4	1.25	31		CLEAR
9:10	13.40		1.0	6.81	23.4	1.02	-79.3	.29	24		CLEAR
9:15	13.40		1.3	6.81	23.7	1.01	-88.5	.30	26		CLEAR
9:20	13.4		1.9	6.81	25.3	1.00	-89.4	.51	23		CLEAR
9:25	13.41		2.2	6.81	25.6	.99	-88.5	.55	28		CLEAR
9:30	13.41		2.7	6.81	26.0	1.00	-89.0	.46	25		CLEAR
9:35	13.41		3.0	6.81	26.1	1.00	-89.4	.45	24		CLEAR

Observations

Color: Clear Other (describe):

Odor: None Low Medium High Very Strong H2S Fuel-Like

Sample Parameters:

Notes:

Sample Date/Time: 4/22/98 9:40

Signed/Sampler: Mike Phillips

FIELD SAMPLING REPORT

LOCATION: NAS AOC2PROJECT: 138681.42.04SITE: SCHMFTA 012

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1AOSAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 16'

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

END DEPTH 16'

YES () NO ()

GRAB () COMPOSITE ()

DATE: 4-22-98TIME: 9:40

CONTAINER SIZE/TYPE	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
#				
			8260	VOCs
			9060	TDC
			9056/3101	AN/ANions
			6010	Cations
			02H	Chlor
			8146	FC2+

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>tan</u>	
2nd <u>0</u>	ODOR: <u>wet</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Dargan

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUN WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWAB/WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

11,652,509

FIELD SAMPLING REPORT

LOCATION: WCHMHTA013PROJECT: 138681.A2.04SITE: NAS FW JRB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: AIB0812SAMPLING METHOD B

DUP/REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO (X)

END DEPTH _____

GRAB () COMPOSITE () DATE: _____ TIME: _____

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE #				
40 ml 3	HCl		8260	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR:	
2nd	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: M. Phillips OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BALER	G=GRAB
WG=GROUND WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652,511

FIELD SAMPLING REPORT

LOCATION: WCHMHTA014

PROJECT: 138681-AZ-04

SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX WG

SAMPLE ID: A180¹⁶

SAMPLING METHOD B

DUP./REP. OF: _____

BEGINNING DEPTH _____

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()

END DEPTH _____

GRAB () COMPOSITE ()

DATE: 4/21/98 TIME: 11:20

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40 N1	3	HCl		B260	V065

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st	COLOR:	
2nd	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR X OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP 70°

SHIPMENT VIA: FED-X X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: Paragon Analytics

COMMENTS: _____

SAMPLER: M.P. Phillips OBSERVER: _____

MATRIX TYPE CODES	SAMPLING METHOD CODES
DC=DRILL CUTTINGS	B=BAILER
WG=GROUN WATER	BR=BRASS RING
LH=HAZARDOUS LIQUID WASTE	CS=COMPOSITE SAMPLE
SH=HAZARDOUS SOLID WASTE	C=CONTINUOUS FLIGHT AUGER
SE=SEDIMENT	DT=DRIVEN TUBE
	W=SWAB/WIPE
	G=GRAB
	HA=HAND AUGER
	H=HOLLOW STEM AUGER
	HP=HYDRO PUNCH
	SS=SPLIT SPOON
	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652 513
I.F.C.

Well Number: WITCTA 010		Site: NAS FW RB									
Field Crew: M. Phillips / B. H. Grier		Date: 4-23-98									
Depth (ft.): <u>18.90</u>	Initial D.O. Profile:										
DTW (ft.) <u>14.10</u>	D.O. (mg/l)	Depth to water (ft.)									
Depth of screen (ft.): <u>11.41 - 18.65</u>											
Well Diameter (in.) <u>762"</u>											
Placement of Pump (ft.) <u>16'</u>											
Field Parameters											
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description	
09:00	*	.1	7.25	-			-	-	-	Cloudy	
09:05	14.10	.8	7.11	23.4	.514	-65.1	.66	279	Cloudy		
09:10	14.10	1.3	7.11	19.3	.508	-770	.70	288	Cloudy		
09:15	14.10	1.9	7.10	23.7	.502	-103.5	.25	186	Cloudy		
09:20	14.10	2.1	7.09	23.8	.504	-105.0	.35	159	Cloudy		
09:25	14.15	2.5	7.08	26.2	.498	-104.3	.36	102	Cloudy		
09:30	14.15	2.9	7.09	25.6	.498	-114.3	.38	101	SL. Cloudy		
09:35	14.15	3.1	7.10	25.1	.501	-121.5	.40	98	SL. Cloudy		
09:40	14.15	3.6	7.09	26.1	.499	-122.5	.39	100	SL. Cloudy		
09:45	14.15	3.9	7.08	26.3	.498	-122.9	.37	100	SL. Cloudy		
Observations											
Color: <input checked="" type="checkbox"/> Clear	Other (describe):										
Odor: <input checked="" type="checkbox"/> None	Low	Medium	High	Very Strong	H2S	Fuel-Like					
Sample Parameters:											
Notes: * changed out Cornd probe with Tenter 2											
Sample Date/Time: 4-23-98 - 9:55											
Signed/Sampler: Mike Phillips II											

FIELD SAMPLING REPORT

LOCATION: WIT(TA010PROJECT: 138681.AZ.04SITE: NAS FW IPB

SAMPLE INFORMATION

MATRIX WGSAMPLE ID: A1A032SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 16'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()END DEPTH 16'

GRAB () COMPOSITE ()

DATE: 4-23-98 TIME: 9:55

CONTAINER	PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
			8260	TOC
			9060	TOC
			9056/310.1	ATV Anions
			6010	Cations
			8146	Fe ²⁺
			6211	Li ⁺

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>clear</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____

SHIPPED TO: _____

COMMENTS: _____

SAMPLER: Mr. Phillips OBSERVER: _____

MATRIX TYPE CODES		SAMPLING METHOD CODES	
DC=DRILL CUTTINGS	SL=SLUDGE	B=BAILER	G=GRAB
WG=GROUNd WATER	SO=SOIL	BR=BRASS RING	HA=HAND AUGER
LH=HAZARDOUS LIQUID WASTE	GS=SOIL GAS	CS=COMPOSITE SAMPLE	H=HOLLOW STEM AUGER
SH=HAZARDOUS SOLID WASTE	WS=SURFACE WATER	C=CONTINUOUS FLIGHT AUGER	HP=HYDRO PUNCH
SE=SEDIMENT	SW=SWAB/WIPE	DT=DRIVEN TUBE	SS=SPLIT SPOON
		W=SWAB/WIPE	SP=SUBMERSIBLE PUMP

Figure 1: Well Sampling Field Data Sheet

652 515
01 10

Well Number: WITCTA01G		Site: WAS FW JRB								
Field Crew: M. Phillips / Bob Huber		Date: 4-24-98								
Depth (ft.):	27.62	Initial D.O. Profile:								
DTW (ft.)	18.30	D.O. (mg/l)	Depth to water (ft.)							
Depth of screen (ft.):										
Well Diameter (in.)	2"									
Placement of Pump (ft.)	24'									
Field Parameters										
Time	Depth to Water (ft.)	Flow Rate (gpm)	Total Volume (gal)	pH	Temp (C)	Cond. (umhos/cm)	ORP	D.O. (mg/L)	Turb N.T.U.	Description
17:05	18.30		.1	6.55	23.0	1.06	147	.23	999	U. Cloudy
17:10	18.40		1.0	6.65	23.5	1.05	189.0	.17	999	"
17:15	18.40		1.6	6.66	23.5	1.06	178.0	.30	714	Cloudy
17:20	18.40		2.7	6.67	23.8	1.06	165.0	.33	659	Slightly cloudy
17:25	18.40		3.2	6.67	24.0	1.06	170.1	.28	601	S.I. Cloudy
17:30	18.40		4.0	6.67	24.3	1.06	171.4	.26	604	S.I. Cloudy
17:35	18.40		4.6	6.67	24.5	1.07	172.3	.20	610	"
17:40	18.40		5.2	6.67	24.8	1.07	170.5	.21	614	"
Observations										
Color:	<input checked="" type="checkbox"/>	Other (describe):	S.I. Cloudy							
Odor:	<input checked="" type="checkbox"/>	None	Low	Medium	High	Very Strong	H2S	Fuel-Like		
Sample Parameters:	VOL									
Notes:										
Sample Date/Time:	4-24-98 17:45									
Signed/Sampler:	M. Phillips									

FIELD SAMPLING REPORT

LOCATION: WITCT A016PROJECT: 138681-AZ.04SITE: NAS Fort Worth JRB

SAMPLE INFORMATION

MATRIX W16SAMPLE ID: A1B051SAMPLING METHOD SP

DUP./REP. OF: _____

BEGINNING DEPTH 24'MATRIX SPIKE/MATRIX SPIKE DUPLICATE
YES () NO ()END DEPTH 24'

GRAB () COMPOSITE ()

DATE: 4-24-96 TIME: 17:45

CONTAINER		PRESERVATIVE/ PREPARATION	EXTRACTION METHOD	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#				
40ML	3	HCl		82.60	VOC

NOTABLE OBSERVATIONS

PID READINGS	SAMPLE CHARACTERISTICS	MISCELLANEOUS
1st <u>0</u>	COLOR: <u>sl. cloudy</u>	
2nd <u>0</u>	ODOR: <u>none</u>	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUNCLEAR OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____SHIPMENT VIA: FED-X HAND DELIVER _____ COURIER _____ OTHER _____SHIPPED TO: Paragon

COMMENTS: _____

SAMPLER: Mike Phillips OBSERVER: _____

MATRIX TYPE CODES

DC=DRILL CUTTINGS
 WG=GROUNd WATER
 LH=HAZARDOUS LIQUID WASTE
 SH=HAZARDOUS SOLID WASTE
 SE=SEDIMENT

SL=SLUDGE
 SO=SOIL
 GS=SOIL GAS
 WS=SURFACE WATER
 SW=SWABWIPE

SAMPLING METHOD CODES

B=BALER
 BR=BRASS RING
 CS=COMPOSITE SAMPLE
 C=CONTINUOUS FLIGHT AUGER
 DT=DRIVEN TUBE
 W=SWABWIPE

G=GRAB
 HA=HAND AUGER
 H=HOLLOW STEM AUGER
 HP=HYDRO PUNCH
 SS=SPLIT SPOON
 SP=SUBMERSIBLE PUMP

TAB

Appendix F
Sample Location Coordinates

NAS Fort Worth JRB
AOC2 RFI Survey Coordinates

652.518

Location	Northing	Easting	Surface Elevation	Depth to Bedrock	Bedrock Elevation	Comments
PCHMHTA0A1	6968847.867	2295695.701	617 130	20 21	596 920	
PCHMHTA0A2	6968264.751	2295731.486	619 049	18 53	600 519	
PCHMHTA0A3	6967589.359	2295619.047	623 454	25 50	597.954	
PCHMHTA0A4	6966486.822	2295885.674	622.585	18.40	604.185	
PCHMHTA0B1	6968193.823	2296824.520	608.773	24 37	584 403	
PCHMHTA0B2	6967925.824	2296618.566	612.236	21 22	591.016	
PCHMHTA0B3	6966964.238	2296347.452	618.577	17 86	600.717	
PCHMHTA0B4	6966612.754	2296238.241	618 268	28 09	590.178	
PCHMHTA0B5	6966260.166	2296266.667	618.898	3.20	615.698	
PCHMHTA0C1	6968187.460	2297711.038	602 459	15.01	587.449	
PCHMHTA0C2	6967028.928	2297356.302	607.100	20 36	586 740	
PCHMHTA0C-3	6966456.178	2297362.362	610.070	26 08	583 990	
PCHMHTA0D1	6968772.049	2298414.232	600.460	18.39	582 070	
PCHMHTA0D2	6967703.030	2298262.703	594.849	15.17	579.679	
PCHMHTA0D3	6966699.139	2298109.294	604 947	22.42	582.527	
PCHMHTA0E1	6968717.889	2298912.074	601.676	19.74	581.936	
PCHMHTA0E2	6967206.118	2298693.872	593.721	15.67	578.051	
PCHMHTA0E3	6966972.831	2298771.113	601.548	17 92	583 628	
PCHMHTA0E4	6966634.120	2298682.284	603 814	20 09	583 724	
PCHMHTA0E5	6966161.103	2298670.425	605 112	18 96	586.152	
PCHMHTA0E6	6965817.253	2298688.293	598 599	16 17	582.429	
PCHMHTA0F1	6968091.195	2299394.997	598 120	19.64	578.480	
PCHMHTA0F2	6967621.356	2299430.266	595.077	16.82	578.257	
PCHMHTA0F3	6965424.023	2299304.242	590.135	7.54	582 595	
WCHMHTA001	6965828.172	2293437.600	639.570	48 00	591 570	
WCHMHTA002	6966740.532	2294553.414	631 830	42 00	589 830	
WCHMHTA003	6967153.875	2294774.144	631 690	38 00	593 690	same location as 4
WCHMHTA004	6967144.605	2294776.099	631 680	38 00	593 680	same location as 3
WCHMHTA005	6966691.185	2295397.821	627 390	36.50	590.890	same location as 6
WCHMHTA006	6966690.112	2295406.968	627.220	36.50	590.720	same location as 5
WCHMHTA007	6967105.885	2295645.387	624.540	32.50	592 040	
WCHMHTA008	6967889.887	2295597.480	623.150	25.00	598.150	
WCHMHTA009	6967635.292	2296395.012	615 730	24 50	591.230	same location as 10
WCHMHTA010	6967640.077	2296398.796	615.740	24 50	591.240	same location as 9
WCHMHTA011	6968490.507	2297063.014	606 320	22 00	584.320	
WCHMHTA012	6967840.863	2297425.824	606 180	18.50	587.680	
WCHMHTA013	6966251.256	2299786.181	578 760	18 50	560.260	
WCHMHTA014	6970403.901	2294072.809	619.430	12.50	606 930	
Staff Gauge Lake	6970870.104	2299390.649	593.100	---	---	elev. at base of staff (0 00 ft)
Staff Gauge Trinity	6966941.064	2299917.901	528 920	---	---	elev. at base of staff (0 00 ft)
BCHMHTA001	6967602.983	2297641.370	---	---	---	location approximate
BCHMHTA002	6966692.266	2297653.124	---	---	---	location approximate
1068	6966172.008	2296776.515	613 005			
1069	6966204.878	2296780.476	612 446			
1070	6966239.279	2296790.030	613.873			
1071	6966585.683	2296811.893	614.649			
1072	6967103.202	2296828.053	615.302			
1073	6967484.745	2296842.584	613 626			
1074	6967927.370	2296864.912	611 347			
1075	6968146.480	2296881.424	610 511			
1076	6968259.881	2296864.888	608 203			
1078	6967856.741	2297391.645	606.746			
1079	6967927.410	2296864.915	611.351			
1083	6967687.105	2296418.902	614.761			
1084	6967711.340	2296204.167	618.280			
1085	6967782.501	2295854.358	621.524			
1086	6967816.258	2295633.240	621.330			
1087	6967923.973	2295526.543	622 852			
1088	6967854.861	2295240.581	625 930			
1089	6967855.055	2295273.179	626 103			
1098	6966228.163	2295337.925	628 164			
1100	6966226.626	2295171.740	630 389			
1101	6966222.508	2295082.906	631.788			
1102	6966218.026	2294878.450	630 076			
1103	6966205.995	2294534.053	631 736			
1104	6966193.357	2294220.218	634 400			
1105	6966186.513	2293973.112	633.442			
1106	6966182.071	2293831.778	635.161			
1107	6966178.526	2293693.468	633.392			
1108	6966176.126	2293596.202	632.634			
1109	6966173.715	2293502.384	640 124			
1110	6966170.450	2293299.832	641 629			

652 519

NAS Fort Worth JRB
AOC2 RFI Survey Coordinates

Location	Northing	Easting	Surface Elevation	Depth to Bedrock	Bedrock Elevation	Comments
1111	6967855.077	2293337.262	637.560			
1112	6967861.968	2293692.154	634.997			
1113	6967861.317	2293815.824	634.851			
1114	6967862.988	2293977.380	632.821			
1115	6967862.101	2294038.196	632.395			
1116	6967858.863	2294273.815	631.336			
1117	6967854.940	2294662.094	628.427			
1118	6967852.556	2295019.380	627.494			
1119	6967852.670	2295083.786	628.474			
1120	6967855.039	2295241.571	626.110			
1123	6968285.977	2294282.833	629.048			
1124	6967858.298	2294271.153	631.391			
1125	6967579.315	2294263.698	632.225			
1126	6967275.474	2294273.697	633.975			
1127	6967084.822	2294270.584	633.291			
1128	6967042.256	2294269.902	631.729			
1129	6967021.743	2294270.075	632.627			
1130	6966941.418	2294270.201	633.417			
1131	6966845.153	2294270.950	632.388			
1132	6966727.027	2294272.935	633.807			
1133	6966508.226	2294275.615	634.059			
1134	6966196.932	2294283.984	633.566			
1135	6966228.157	2295337.836	628.187			
1136	6966408.319	2295330.928	629.746			
1137	6966589.176	2295312.020	629.001			
1138	6966927.170	2295286.360	629.154			
1139	6967045.944	2295282.474	628.738			
1140	6967306.405	2295272.119	628.230			
1141	6967555.274	2295272.161	627.414			
1142	6967941.477	2295271.084	625.198			
1143	6968302.691	2295269.342	623.459			
1149	6967685.419	2296493.171	614.878			
1150	6967694.503	2296537.540	615.674			
1151	6967733.992	2296756.635	613.277			
1152	6967777.659	2297033.423	610.643			
1153	6967802.329	2297186.023	608.894			
1154	6967834.151	2297364.274	607.238			

NAS Fort Worth JRB
 AOC2 RFI Survey Coordinates
 Monitor Well Locations

652 520

Location	Northing	Easting	Surface Elevation	Depth to Bedrock	Bedrock Elevation	Comments
CHMHTA001	6965828.172	2293437.600	639.570	48.00	591.570	
CHMHTA002	6966740.532	2294553.414	631.830	42.00	589.830	
WCHMHTA003	6967153.875	2294774.144	631.690	38.00	593.690	same location as 4
WCHMHTA004	6967144.605	2294776.099	631.680	38.00	593.680	same location as 3
WCHMHTA005	6966691.185	2295397.821	627.390	36.50	590.890	same location as 6
WCHMHTA006	6966690.112	2295406.968	627.220	36.50	590.720	same location as 5
WCHMHTA007	6967105.885	2295645.387	624.540	32.50	592.040	
WCHMHTA008	6967889.887	2295597.480	623.150	25.00	598.150	
WCHMHTA009	6967635.292	2296395.012	615.730	24.50	591.230	same location as 10
WCHMHTA010	6967640.077	2296398.796	615.740	24.50	591.240	same location as 9
WCHMHTA011	6968490.507	2297063.014	606.320	22.00	584.320	
WCHMHTA012	6967840.863	2297425.824	606.180	18.50	587.680	
WCHMHTA013	6966251.256	2299786.181	578.760	18.50	560.260	
WCHMHTA014	6970403.901	2294072.809	619.430	12.50	606.930	

652 521

NAS Fort Worth JRB
AOC2 RFI Survey Coordinates
Direct Push Locations

Location	Northing	Easting	Surface Elevation	Depth to Bedrock	Bedrock Elevation
PCHMHTA0A1	6968847.867	2295695.701	617.130	20.21	596.920
PCHMHTA0A2	6968264.751	2295731.486	619.049	18.53	600.519
PCHMHTA0A3	6967589.359	2295619.047	623.454	25.50	597.954
PCHMHTA0A4	6966486.822	2295885.674	622.585	18.40	604.185
PCHMHTA0B1	6968193.823	2296824.520	608.773	24.37	584.403
PCHMHTA0B2	6967925.824	2296618.566	612.236	21.22	591.016
PCHMHTA0B3	6966964.238	2296347.452	618.577	17.86	600.717
PCHMHTA0B4	6966612.754	2296238.241	618.268	28.09	590.178
PCHMHTA0B5	6966260.166	2296266.667	618.898	3.20	615.698
PCHMHTA0C1	6968187.460	2297711.038	602.459	15.01	587.449
PCHMHTA0C2	6967028.928	2297356.302	607.100	20.36	586.740
PCHMHTA0C3	6966456.178	2297362.362	610.070	26.08	583.990
PCHMHTA0D1	6968772.049	2298414.232	600.460	18.39	582.070
PCHMHTA0D2	6967703.030	2298262.703	594.849	15.17	579.679
PCHMHTA0D3	6966699.139	2298109.294	604.947	22.42	582.527
PCHMHTA0E1	6968717.889	2298912.074	601.676	19.74	581.936
PCHMHTA0E2	6967206.118	2298693.872	593.721	15.67	578.051
PCHMHTA0E3	6966972.831	2298771.113	601.548	17.92	583.628
PCHMHTA0E4	6966634.120	2298682.284	603.814	20.09	583.724
PCHMHTA0E5	6966161.103	2298670.425	605.112	18.96	586.152
PCHMHTA0E6	6965817.253	2298688.293	598.599	16.17	582.429
PCHMHTA0F1	6968091.195	2299394.997	598.120	19.64	578.480
PCHMHTA0F2	6967621.356	2299430.266	595.077	16.82	578.257
PCHMHTA0F3	6965424.023	2299304.242	590.135	7.54	582.595

NAS Fort Worth JRB
AOC2 RFI Survey Coordinates
Geophysical Transects

652.522

Surveyor Ref	Line	Northing	Easting	Surface Elevation
1098	1	6966228.163	2295337.925	628.164
1100	1	6966226.626	2295171.740	630.389
1101	1	6966222.508	2295082.906	631.788
1102	1	6966218.026	2294878.450	630.076
1103	1	6966205.995	2294534.053	631.736
1104	1	6966193.357	2294220.218	634.400
1105	1	6966186.513	2293973.112	633.442
1106	1	6966182.071	2293831.778	635.161
1107	1	6966178.526	2293693.468	633.382
1108	1	6966176.126	2293596.202	632.634
1109	1	6966173.715	2293502.384	640.124
1110	1	6966170.450	2293299.832	641.629
1111	2	6967855.077	2293337.262	637.560
1112	2	6967861.968	2293692.154	634.997
1113	2	6967861.317	2293815.824	634.851
1114	2	6967862.988	2293977.380	632.821
1115	2	6967862.101	2294038.196	632.395
1116	2	6967858.863	2294273.815	631.336
1117	2	6967854.940	2294662.094	628.427
1135	3	6966228.157	2295337.836	628.187
1136	3	6966408.319	2295330.928	629.746
1137	3	6966589.176	2295312.020	629.001
1138	3	6966927.170	2295286.360	629.154
1139	3	6967045.944	2295282.474	628.738
1140	3	6967306.405	2295272.119	628.230
1141	3	6967555.274	2295272.161	627.414
1142	3	6967941.477	2295271.084	625.198
1143	3	6968302.691	2295269.342	623.459
1078	4	6967856.741	2297391.645	606.746
1083	4	6967687.105	2296418.902	614.761
1084	4	6967711.340	2296204.167	618.280
1085	4	6967782.501	2295854.358	621.524
1086	4	6967816.258	2295633.240	621.330
1087	4	6967823.973	2295526.543	622.852
1088	4	6967854.861	2295240.581	625.930
1089	4	6967855.055	2295273.179	626.103
1118	4	6967852.556	2295019.380	627.494
1119	4	6967852.670	2295083.786	628.474
1120	4	6967855.039	2295241.571	626.110
1149	4	6967685.419	2296493.171	614.878
1150	4	6967694.503	2296537.540	615.674
1151	4	6967733.992	2296756.635	613.277
1152	4	6967777.659	2297033.423	610.643
1153	4	6967802.329	2297186.023	608.894
1154	4	6967834.151	2297364.274	607.238
1068	5	6966172.008	2296776.515	613.005
1069	5	6966204.878	2296780.476	612.446
1070	5	6966239.279	2296780.030	613.873
1071	5	6966585.683	2296811.893	614.649
1072	5	6967103.202	2296828.053	615.302

652 523

NAS Fort Worth JRB
AOC2 RFI Survey Coordinates
Geophysical Transects

Surveyor Ref	Line	Northing	Easting	Surface Elevation
1073	5	6967484.745	2296842.584	613.626
1074	5	6967927.370	2296864.912	611.347
1075	5	6968146.480	2296881.424	610.511
1076	5	6968259.881	2296864.888	608.203
1079	5	6967927.410	2296864.915	611.351
1123	6	6968285.977	2294282.833	629.048
1124	6	6967858.298	2294271.153	631.391
1125	6	6967579.315	2294263.698	632.225
1126	6	6967275.474	2294273.697	633.975
1127	6	6967084.822	2294270.684	633.291
1128	6	6967042.256	2294269.902	631.729
1129	6	6967021.743	2294270.075	632.627
1130	6	6966941.418	2294270.201	633.417
1131	6	6966845.153	2294270.950	632.388
1132	6	6966727.027	2294272.935	633.807
1133	6	6966508.226	2294275.615	634.059
1134	6	6966196.932	2294283.984	633.566

Note: Not all seismic profile points were surveyed.

NAS Fort Worth JRB
AOC2 RFI Survey Coordinates
Staff Gauge Locations

652 524

Location	Northing	Easting	Surface Elevation	Comments
Staff Gauge Lake	6970870.104	2299390.649	593.100	elev. at base of staff (0.00 ft)
Staff Gauge Trinity	6966941.064	2299917.801	528.920	elev. at base of staff (0.00 ft)

TAB

APPENDIX G LABORATORY ANALYSIS DATA

TAB

G-1 CHAIN OF CUSTODY FORMS

97-11-001

Report Print Date: 10/31/97 5:03:26 PM

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Paragon Analytics, CD

PO#: 138681-A2.05
 Lab: CH2M HILL - Montgomery, AL

Page 1

Project:	ROC 2
Number:	138681-A2.05
Manager:	K. O'Hare

COC Number:	AHA
QA Level:	3

COC Number:	AHA001EB1
QA Level:	3

Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AHA001EB1	FIELDQC	0	0	10/31/97 12:16	WG	3	GW VOC	O1
AHA002TB1	FIELDQC	0	0	10/31/97 08:56	WG	3	GW VOC	O2
AHA003	PCMMHTAD1	0	0	10/31/97 12:50	WG	3	GW VOC	O3
AHA004	PCMMHTAD3	0	0	10/31/97 14:20	WG	3	GW VOC	O4
AHA005	PCMMHTAD2	0	0	10/31/97 16:30	WG	3	GW VOC	O5

Sampled by: Kelvinson Date and Time: 10/31/97 13:44 Relinquished by: Kelvinson Date and Time: 10/31/97 13:44

Additional Sampler:

Received by LAB:

Received by LAB:

Shipped by:

P.O. #:

Date and Time:

Relinquished by:

Date and Time:

Relinquished by:

Date and Time:

Comments:

Received by LAB: S. Parikh J. BARNES Date and Time: 10/31/97 14:54 Relinquished by: _____ Date and Time: _____

Received by LAB: UPS BUS FED-EX HAND CTR Date and Time: _____ Relinquished by: _____ Date and Time: _____

Shipping No: 5692786256 Date and Time: _____ Relinquished by: _____ Date and Time: _____

97 11.018

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 11/3/97 5:17:30 PM

652 528

COC Number: AHA 3		Project: ROC 2 Number: 138681-A2.05		Manager: M. O'Hare		PO#: Page 1 Lab: Paragon Analytics, Inc	
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Comments
AHA006AB1	FIELDQC	0	0	11/13/97 16:20	WQ	3	GW VOC
AHA007EB1	FIELDQC	0	0	11/13/97 07:00	WQ	3	GW VOC
AHA008TB1	FIELDQC	0	0	11/13/97 06:45	WQ	3	GW VOC
AHA009	PCHMMHTA0A4	0	0	11/13/97 08:05	WG	3	GW VOC
AHA010	PCHMMHTA0B3	0	0	11/13/97 13:20	WG	9	GW VOC
* FIELD QC - GW VOC							
AHA011FD1	PCHMMHTA0B3	0	0	11/13/97 13:20	WG	3	GW VOC
AHA012	PCHMMHTA0C3	0	0	11/13/97 16:35	WG	3	GW VOC



ANALYST: C.
225 Commerce Drive Ft. Collins, CO 80524
1511 0149
(970) 490-1522 Fax

**CHART OF TESTS -
ACCESSION NUMBER 1432**

REPORT TO: Margaret O'Hare
COMPANY: CH2M HILL

ADDRESS: 53339 Alpha Rd. Ste 300
Dallas, TX 75240
(972) 900-2188

SAMPLER:
(214) 643-9322 (972) 385-0846
PHONE NO.

FAX NO.

SAMPLE ID DATE TIME MATRIX
AHA 013 07/17/03 0700 Water X
AHA 014 " 0715 Water X
AHA 015 " 1000 Soil X
AHA 016 " 1430 Soil X

OIL & GREASE

9070/9071/1432

41B.1 - TRPH

8015 Mod - Diesel

8020 - BETX

8015m/8020 - Gasoline/BETX

8240/8260 - GC/MS VOC's

8270 - GC/MS SVOC's

8080 - Pesticides/PCBs

8310/6110 - HPLC PNA's

8150 - Herbicides

8141/614 - OP Pesticides

TOX - EOX - AOX - TX

Gross Alpha / Beta

Radium 226 / 228

Total Uranium (KPA)

Isotopic Uranium

Isotopic Plutonium

Gamma Spec

Gross Gamma

TOTAL

Number of Containers

1

Number of Contaminants

1

Moisture

X

Formaldehyde

X

Strontium 89 / 90

X

Tritium (TH)

X

Radon

X

Uranium

X

Plutonium

X

Thorium

X

Radium

X

Actinides

X

Alpha

X

Beta

X

Gamma

X

Neutron

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652 529

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CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 11/18/97 3:37:11 PM

COC Number:	AIA	Project:	AOC 2	Manager:	M. O'Hare				
QA Level:	3	Number:	138681-A2.05	Comments:					
SampleID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments	
O1	AHA017TB1	FIELDQC	0	0	11/18/97 06:46	WQ	3	GW VOC	3 X 40 ml VOC
O2	AHA018EB1	FIELDQC	0	0	11/18/97 07:30	WQ	3	GW VOC	3 X 40 ml VOC
O3	AHA019	WCHMMHTA007	1/2	1/4	11/18/97 10:20	SO	3	SO VOC	3X40 ml VM
O4	AHA020FD1	FIELDQC	1/2	1/4	11/18/97 10:20	SO	1	SO VOC	1X40g VM

PO#:
Lab: Paragon Analytics, Inc

Page 1

Sampled by: Marko Date and Time: 11/18/97 16:00 Relinquished by: Marko Date and Time: 11/18/97 16:00

Additional Samplers:

Received by LAB: D. Baugh Date and Time: 11/19/97 10:00 Relinquished by: _____ Date and Time: _____

Received by LAB: _____ Date and Time: _____ Relinquished by: _____ Date and Time: _____

Shipped by: UPS BUS FED-EX HAND OTHER Shipping No: _____

Remarks: DAK 11.20.97

pacChainOfCustody - updated 07/03/98

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CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

COC Number:	AHA	Project: AOC 2	Manager: M. O'Hare					
QA Level:	3	Number: 138681.AZ.05						
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AHA021TB1	FIELDQC	0	0	11/19/97 07:00	WQ	3	GW VOC	01
AHA022AB1	FIELDQC	0	0	11/19/97 08:20	WQ	3	GW VOC	02
AHA023EB1	FIELDQC	0	0	11/19/97 08:30	WQ	3	GW VOC	03
AHA024	WCHMMHTA008	12	14	11/19/97 09:20	SO	1	SO VOC	04
AHA025	WCHMMHTA008	14	16	11/19/97 09:30	SO	1	SO VOC	05 High PID reading (261 ppm)

VOC

PO#: Lab: Paragon Analytics, Inc

Page 1

Sampled by: Maddie Date and Time: 11/19/97 1515 Relinquished by: Maddie Date and Time: 11/19/97 1530

Additional Samplers: Date and Time: Relinquished by: Date and Time:

Received by LAB: D. Buff Date and Time: 11/20/97 1000 Relinquished by: Date and Time:

Received by LAB: Date and Time: Shipping No:

Shipped by: UPS BUS FED-EX HAND Other _____

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Report Print Date: 11/20/97 5:42:22 PM

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

COC Number: AHA QA Level: 3	Project: AOC 2 Number: 138681..A2.05	Manager: M. O'Hare						
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AHA026TB1	FIELDQC	0	0	11/20/97 07:30	WQ	3	GW_VOC	D1
AHA027FB1	FIELDQC	0	0	11/20/97 07:16	WQ	2	GW_TOC, GW_VOC	D2
AHA028	WCHMMHTA045	10	12	11/20/97 08:46	WQ	2	SO_TOC, SO_VOC	D3
AHA029	WCHMMHTA001	8	8	11/20/97 12:00	WQ	2	SO_TOC, SO_VOC	D4
AHA030	WCHMMHTA001	28	28	11/20/97 14:30	WQ	2	SO_TOC, SO_VOC	D5
								10/24

PO#:	Lab: Paragon Analytics, Inc	Page 1
------	-----------------------------	--------

Sampled by: Moorin Date and Time: 11/20/97 10:00 Relinquished by: Moorin Date and Time: 11/20/97 10:03
 Additional Samplers:

Received by LAB: Date and Time: 10/20 11/24 Relinquished by: _____ Date and Time: _____
 Received by LAB: Date and Time: Relinquished by: _____ Date and Time: _____
 Shipped by: UPS BUS FED-EX HAND Other _____ Shipping No: _____
 Remarks: _____

9/11. -4

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 11/21/97 3:21:58 PM

COC Number: AHA QA Level: 3	Project:AOC 2 Number:138681.A2.05	Manager:M. O'Hare	PO#: Lab:Paragon Analytics, Inc Page 1					
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
01 AHA031TB1	FIELDQC	0	0	11/21/97 07:00	WQ	3	GW_VOC	
02 AHA032EB1	FIELDQC	0	0	11/21/97 07:15	WQ	4	GW_TOC, GW_VOC	
03 AHA033 WCHMMHTA012	12	14		11/21/97 10:50	SO	2	SO_TOC, SO_VOC	Collected above saturated zone

Sampled by: Mazzoni Date and Time: 11/21/97 17:00 Relinquished by: Mazzoni Date and Time: 11/21/97 17:30

Additional Samplers:

Received by LAB: J. Mazzoni Date and Time: 11/22/97 10:00 Relinquished by: _____ Date and Time: _____
Received by LAB: _____ Date and Time: _____ Relinquished by: _____ Date and Time: _____
Shipped by: UPS BUS FED EX HAND Other Shipping No: _____
Remarks: All Sample Rec'd In Vermiculite - Possible Contamination from Vermiculite when containers are opened
rpChainOfCustody - updated 9/7/93 19

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97/11.30Z

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Project: ROC 2 Number: 138681.A2.05							PO#: [REDACTED] Lab: Paragon Analytics, Inc		Page 1	
COC Number: AHA QA Level: 3		Station ID FIELDQC	Begin Depth 0	End Depth 0	Date & Time Collected 1/25/97 07:00	Matrix WQ	Number of Containers 3	Analysis Requested GW VOC	Comments	
01	AHA034TB1	FIELDQC	0	0	1/25/97 07:16	WQ	3	(H)ent-to-GW VOC		
02	AHA036EB1	FIELDQC	0	0	1/25/97 13:35	-WE-	1	(H)GW VOC		
03	AHA036	WCHMMHTA009	6	8	1/25/97 13:35	Soil	1	(SO-VOC)		

Sampled by: Mosawi Date and Time: 1/25/97 17:25 Relinquished by: Mosawi Date and Time: 1/25/97 17:30

Additional Samplers: Fox Date and Time: 1/26/97 10:00 Relinquished by: Fox Date and Time: _____
 Received by LAB: [Signature] Date and Time: 1/26/97 10:00 Relinquished by: [Signature] Date and Time: _____
 Received by LAB: [Signature] Date and Time: 1/26/97 10:00 Relinquished by: [Signature] Date and Time: _____
 Shipped by: UPS BUS FEDEX HAND Other _____ Shipping No: _____
 Remarks: _____

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

971131 Report Print Date: 11/26/97 3:15:26 PM

Project: ROC 2 Number: 138681.A2.05							Manager: M. O'Hare	
COC Number: AHA 3	Station ID FIELDQC	Begin Depth 0	End Depth 0	Date & Time Collected 11/26/97 07:16	Matrix WQ	Number of Containers 3	Analysis Requested GW VOC	Comments
51 AHA037TB1	FIELDQC	0	0	11/26/97 07:30	WQ	3	GW TOC, GW VOC	
52 AHA038EB1	FIELDQC	0	0	11/26/97 09:46	SO	6- 10	SO TOC, SO VOC	
53 AHA039	WCHMMHTA006	12	16	11/26/97 09:46	SO	6- 10	SO TOC, SO VOC	Use Extra Samples for MS/MSD. Collected above the saturated zone.
54 AHA040FD1	FIELDQC	12	16	11/26/97 09:46	SO	21 16	SO TOC, SO VOC	

Sampled by: Mastri Date and Time: 11/26/97 15:30 Relinquished by: Mastri Date and Time: 11/27 16:00

Additional Samplers:

Received by LAB: SS Date and Time: 11/27-9:00 Relinquished by: _____
 Received by LAB: _____ Date and Time: _____ Relinquished by: _____

Shipped by: UPS BUS ~~FED EX~~ HAND OTHER Shipping No: 5692786293

Remarks: DAN 12.02.97

97/12/023

652 506

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date: 12/2/97 11:29:48 AM

COC Number:	AHA	Project: AOC 2	PO#:	Page 1				
QA Level:	3	Number: 138681.A2.05	Lab: Paragon Analytics, Inc					
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
O1 AHA041TB1	FIELDQC	0	0	12/1/97 09:16	WQ	3	GW_VOC	12-1 VOC
O2 AHA042FB1	FIELDQC	0	0	12/1/97 10:30	WQ	3	GW_VOC	
O3 AHA043	WICHMHTA004	17	18	12/1/97 12:00	SO	1	SO_VOC	12-1 VOC

Sampled by: Mashin Date and Time: 12/2/97 12:00 Relinquished by: Mashin

Additional Samplers:

Received by LAB: Y S Date and Time: 12/3/97 11:00 Relinquished by: _____
Date and Time: _____ Relinquished by: _____
Date and Time: _____

Shipped by: UPS BUS FED-EX HAND Other DA 12/02/97 Shipping No: _____

Remarks: _____

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

97-12-095 Report Print Date: 12/03/97 5:47:04 PM

COC Number:	AOC 2	Project: AOC 2	Manager: M. O'Hare	PO#:	Page 1			
QA Level:	3	Number: 138681.A2.05		Lab: Paragon Analytics, Inc				
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
O1	FIELDQC	0	0	12/6/97 08:30	WQ	3	GW_VOC	
O2	FIELDQC	0	0	12/6/97 08:45	WQ	3	GW_VOC	
O3	WCHMMHTA003	18	20	12/6/97 09:45	SO	1	SO_VOC	Collected above saturated zone
								26-9

Sampled by: Motzkin Date and Time: 12/6/97 1600 Relinquished by: Motzkin Date and Time: 12/6/97 1800

Additional Samplers:

Received by LAB: FDX Date and Time: 12/9/97 9:15 Relinquished by: FDX Date and Time: _____
 Received by LAB: Stefan Date and Time: 12/9/97 9:15 Relinquished by: Stefan Date and Time: _____
 Shipped by: UPS BUS FED-EX HAND OTHER Shipping No: _____
 Remarks: Vernacularite contamination possible

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Report Print Date: 12/10/97 4:01:50 PM

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

Project: AOC 2		PO#:		Page 1	
COC Number: AHA QA Level: 3	Number: 138661.A2.05	Manager: M. O'Hare	Lab: Paragon Analytics, Inc		
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix
AHA047TB1	FIELDQC	0	0	12/10/97 07:30	WQ
AHA048EB1	FIELDQC	0	0	12/10/97 09:30	WQ
AHA049	BCHMMHTA001	1	3	12/10/97 08:20	SO
AHA050	BCHMMHTA001	6	7	12/10/97 08:26	SO
AHA051	BCHMMHTA001	10	12	12/10/97 08:30	SO
AHA062	BCHMMHTA002	1	3	12/10/97 08:07	SO
AHA063	BCHMMHTA002	6	7	12/10/97 09:12	SO
AHA064	BCHMMHTA002	10	12	12/10/97 09:21	SO

Number of Containers Analysis Requested Comments

1 GW VOC 40ml vials
 1 GW VOC
 1 SO VOC 40ml vials
 1 SO VOC
 1 SO VOC

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 2 16

1745 Relinquished by: Mazurin Date and Time: 12/10/97 1745

Sampled by:

Additional Samples:

Received by LAB:

Received by LAB:

Shipped by: UPS BUS FED-EX HAND Other

Remarks:

Date and Time:

Date and Time:

Shipping No:

Date and Time:

Date and Time:

Date and Time:

CH2M HILL
Chain of Custody Form

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Multimodal Semantics

Academic Seminar 8.

Published by LAB.

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9/24/14

Date and Time:

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CH2M HILL Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date: 12/23/97 11:46:48 AM

COC Number: AHA	Project: AOC 2	Manager: M. O'Hare	PO#: Lab: Paragon Analytics, Inc					
QA Level: 3	Number: 138681-A2.05	Page 2						
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AHA055TB1	FIELDAC	0	0	12/23/97 07:15	WQ	3	GW VOC	
AHA056EB1	FIELDAC	0	0	12/23/97 08:46	WQ	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC	
AHA057	WITCTA010	0	0	12/23/97 11:10	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC	
AHA058	MW3	0	0	12/23/97 08:52	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC	
AHA059	GMI-22-05N	0	0	12/23/97 09:05	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC	

Sample ND+ Received at Lab Client notified 12/24/97

Sampled by: Victor Lin Date and Time: 12/23/97 12:00 Relinquished by: Mark Currin Date and Time: 12/23/97 13:00

Additional Samplers: Bob Brown

Received by LAB: EDD Date and Time: 12/24/97 11:00 Relinquished by: Mark Date and Time: 12/24/97 11:00
 Received by LAB: SS Date and Time: 12/24/97 11:00 Relinquished by: Mark Date and Time: 12/24/97 11:00

Shipped by: UPS BUS FED-EX HAND CNG

Shipping No: 1234567890Remarks: 10°c

mChainO - updated 07/03/98

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 12/16/97 5:13:

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Chain of Custody Form

NAS FW JRB AOC 2

Elephas

Date and Time: 1730 Relinquished by: P.G.Jones Date and Time: 12/16/97 Date and Time: 1730 12/16/97

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Scanned by [REDACTED]

Received by ERN

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Received by Lab:

Shipped by: UPS

Remarks: _____

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CH2M HILL
Chain of Custody Form
 NAS FW JRB AOC 2

Report Print Date: 12/16/97 5:46:28 PM

COC Number:	AHA	Project: AOC 2	Number: 1386681.A2.05	Manager: M. O'Hare	PO#:	Lab: Paragon Analytics, Inc	Page 2			
QA Level:	3	Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
O1	AHA060TB1	FIELDQC	0	0	0	12/16/97 07:30	WQ	3	GW VOC	
O2	AHA061AB1	FIELDQC	0	0	0	12/16/97 14:26	WQ	3	GW VOC	
O3	AHA062EB1	FIELDQC	0	0	0	12/16/97 17:20	WQ	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O4	AHA063	WCHMMHTA012	0	0	0	12/16/97 11:58	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O5	AHA064	LSA1628-3	0	0	0	12/16/97 16:10	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O6	AHA066	GMI-22-07M	0	0	0	12/16/97 17:00	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O7	AHA066	HM-120	0	0	0	12/16/97 11:16	WG	18	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O8	AHA067	MW-57B	0	0	0	12/16/97 12:35	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O9	AHA068	GMI-22-02M	0	0	0	12/16/97 09:40	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
O10	AHA069FD1	FIELDQC	0	0	0	12/16/97 11:15	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	

Sampled by: Mastri Date and Time: 12/16/97 18:00 Relinquished by: Mastri Date and Time: 12/16/97 18:00

Additional Samplers: KC Jumper

Received by LAB: FBI Date and Time: 12/17/97 10:00 Relinquished by: FBI Date and Time: _____
 Received by LAB: JK Date and Time: 12/17/97 10:00 Relinquished by: JK Date and Time: _____
 Shipped by: UPS BUS FED-EX HAND Other DN 12-18-97 Shipping No: _____
 Remarks: _____

97.12.2022

Report Print Date: 12/17/97 4:58:20 PM

CH2M HILL Chain of Custody Form

NAS FW JRB AOC 2

COC Number:	AER	Project: AOC 2			PO#:		
QA Level:	3	Number: 1138681-A2.05			Lab: Paragon Analytics, Inc		
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Comments
1 AHA070TB1	FIELDQC	0	0	12/17/97 07:30	WQ	3	GW VOC
2 AHA071EB1	FIELDQC	0	0	12/17/97 16:00	WQ	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC
3 AHA072	HM-121	0	0	12/17/97 10:10	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC
4 AHA073FD1	FIELDQC	0	0	12/17/97 10:10	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC
5 AHA074	MW-49	0	0	12/17/97 14:05	WG	3	GW VOC
6 AHA076	WCHMMHTA001	0	0	12/17/97 16:40	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC
7 AHA076	WCHMMHTA008	0	0	12/17/97 11:45	WG	3	GW VOC
8 AHA077	WCHMMHTA010	0	0	12/17/97 14:24	WG	3	GW VOC
9 AHA078	WCHMMHTA011	0	0	12/17/97 10:48	WG	3	GW VOC

Sampled by: Mosby Date and Time: 12/17/97 17:50
Relinquished by: Fisher Date and Time: 12/17/97 17:50

Additional Samplers:

Received by LAB:	FSX	Date and Time:	<u>12/17/97 17:50</u>	Date and Time:	<u>12/17/97 17:50</u>
Received by LAB:	SJL	Date and Time:	<u>12/17/97 17:50</u>	Date and Time:	<u>12/17/97 17:50</u>
Shipped by:	UPS BUS FED-EX HAND Other	Shipping No:	<u>WA 12.19.97</u>	Remarks:	<u>rpChainOfCustody - updated 9/7/01</u>

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 12/17/97 4:58:16 PM

652 544

COC Number:	AOC 2	Project: AOC 2	Manager: M. O'Hare	PO#:	Page 1			
QA Level:	3	Number: 138681.A2.05		Lab: CH2M HILL, Corvallis, OR				
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AHA071EB1	FIELDQC	0	0	12/17/97 16:00	WG	3	GW_METH	
AHA072	HM-121	0	0	12/17/97 10:10	WG	3	GW_METH	
AHA073FD1	FIELDQC	0	0	12/17/97 10:10	WG	3	GW_METH	
AHA076	WCHMMHTA001	0	0	12/17/97 16:40	WG	3	GW_METH	

6562-1-744

Sampled by: Mooritz Date and Time: 12/17/97 17:15 Relinquished by: Mooritz Date and Time: 12/17/97 17:15

Additional Samplers: Heisterkamp

Received by LAB: Jrnal Date and Time: 12/18-97 16:00 Relinquished by: _____ Date and Time: _____

Received by LAB: _____ Date and Time: _____ Relinquished by: _____ Date and Time: _____

Shipped by: UPS BUS FED-EX HAND Other _____ Shipping No: _____

Remarks: Boss

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 12/18/97 3:08:40 PM

9712205

Project: AOC 2		Manager: M. O'Hare		Comments	
COC Number:	Number: 138681-A2 .05	Begin Depth	End Depth	Date & Time Collected	Matrix
AHA		0	0	12/18/97 07:30	WQ
AHA079TB1	FIELDQC	0	0	12/18/97 14:40	WQ
AHA080EB1	FIELDQC	0	0	12/18/97 14:45	WG
AHA081	USGS04T	0	0	12/18/97 09:25	WG
AHA082	GMI-22-03 M	0	0	12/18/97 08:40	WG
AHA083	GMI-22-04M	0	0	12/18/97 11:40	WG
AHA084	GMI-22-06M	0	0	12/18/97 13:35	WG
AHA086	WCHMMHTA013	0	0		GW_VOC

Page 1

PO#: Lab: Paragon Analytics, Inc.

+1 652 545

1600
12/18/97

Sampled by: Motzai Relinquished by: Motzai Date and Time: 12/18/97

Additional Samples:	Received by LAB: <u>S. Bandy</u>	Date and Time: 12/19/97 10:00	Relinquished by: _____	Date and Time: _____
	Received by LAB: _____	Date and Time: _____	Relinquished by: _____	Date and Time: _____
	Shipped by: UPS <input checked="" type="checkbox"/> FED EX <input checked="" type="checkbox"/> HAND OTHER	Shipping No: _____		
Remarks:	DA 12 - 23, 97			

Report Print Date: 12/19/97 3:24:54 PM

97-12-227

CH2M HILL

Chain of Custody Form

NAS FW JRB AOC 2

COC Number:		Project: AOC 2		Project: AOC 2		Project: AOC 2		Project: AOC 2	
QA Level:		Number: 138681.A2.05		Number: 138681.A2.05		Number: 138681.A2.05		Number: 138681.A2.05	
Station ID:		Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Comments	
1	AHA088TB1	FIELD DQC	0	0	12/19/97 07:30	WG	3	GW_VOC	
2	AHA087EB1	FIELD DQC	0	0	12/19/97 16:00	WG	3	GW_VOC	
3	AHA088AB1	FIELD DQC	0	0	12/19/97 09:16	WG	3	GW_VOC	
4	AHA089	MW-57	0	0	12/19/97 08:20	WG	3	GW_VOC	
5	AHA090	HM-118	0	0	12/19/97 09:42	WG	3	GW_VOC	
6	AHA091	HM-117	0	0	12/19/97 11:42	WG	3	GW_VOC	
7	AHA092	WCHMMHTA002	0	0	12/19/97 14:25	WG	3	GW_VOC	
8	AHA093	WCHMMHTA007	0	0	12/19/97 09:56	WG	3	GW_VOC	
9	AHA094	HM-119	0	0	12/19/97 11:30	WG	3	GW_VOC	
10	AHA096	HM-118	0	0	12/19/97 16:17	WG	9	GW_VOC	
<input checked="" type="checkbox"/> Use Extra Samples for <i>MS/MSD</i> <i>MS/MSD</i>									
<input checked="" type="checkbox"/> <i>11 AHA096FD1 FIELD DQC 0 0 12/19/97 16:17 WG 3 GW_VOC</i>									

Sampled by: *Mosher* Date and Time: 12/19/97 16:00 Relinquished by: *Mosher* Date and Time: 12/19/97 16:00

Additional Samplers: *K. Jones*

Received by LAB: <i>UPS</i>	Date and Time: <i>12/20/97 10:50 AM</i>	Relinquished by: <i>Paragon</i>	Date and Time: <i>12/20/97 10:50 AM</i>
Received by LAB: <i>UPS</i>	Date and Time: <i>12/20/97 10:50 AM</i>	Relinquished by: <i>Paragon</i>	Date and Time: <i>12/20/97 10:50 AM</i>
Shipped by: <i>UPS</i>	Shipping No: <i>B0364102161</i>		
Remarks: <i>23.01</i>	<i>DA 12/23/97</i>		

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CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 12/22/97 5:40:39 PM

COC Number:	AHA	Project:	ROC 2
QA Level:	3	Number:	138681.A2.05

PO#:	Lab: Paragon Analytics, Inc
Page 1	

PO#:	Lab: Paragon Analytics, Inc
Page 1	

Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested		Comments
							GW	VOC	
AHA097TB1	FIELDQC	0	0	12/22/97 07:30	WG	3			
AHA098EB1	FIELDQC	0	0	12/22/97 17:20	WG	3	GW	VOC	
AHA099	WCHMMHTA003	0	0	12/22/97 12:05	WG	3	GW	VOC	
AHA100	WCHMMHTA004	0	0	12/22/97 10:25	WG	3	GW	VOC	
AHA101	WCHMMHTA006	0	0	12/22/97 13:45	WG	3	GW	VOC	
AHA102	WCHMMHTA006	0	0	12/22/97 16:10	WG	3	GW	VOC	
AHA103	WCHMMHTA009	0	0	12/22/97 10:40	WG	3	GW	VOC	
AHA104	HM-96	0	0	12/22/97 13:04	WG	3	GW	VOC	
AHA105	HM-126	0	0	12/22/97 16:07	WG	3	GW	VOC	
AHA106	WCHMMHTA014	0	0	12/22/97 11:08	WG	3	GW	VOC	
AHA107 *	SPOT-264	0	0	12/22/97 17:15	WG	3	GW	VOC	
AHA108	WTCTA016	0	0	12/22/97 17:05	WG	3	GW	VOC	
AHA109FD1	FIELDQC	0	0	12/22/97 17:15	WG	3	GW	VOC	

Sampled by: M. O'Hare Date and Time: 12/22/97 17:45 Relinquished by: M. O'Hare Date and Time: 12/22/97 18:00

Additional Samplers: M. O'Hare Date and Time: 12/22/97 17:45 Relinquished by: M. O'Hare Date and Time: 12/22/97 18:00

Received by LAB: Paragon Date and Time: 12/23/97 10:30 Relinquished by: Paragon Date and Time: 12/23/97 10:30

Received by LAB: Paragon Date and Time: 12/23/97 10:30 Relinquished by: Paragon Date and Time: 12/23/97 10:30

Shipped by: UPS BUS FED-EX HAND-OUT Shipping No: 20 Remarks: 20

Date and Time: 12/22/97 17:45 Date and Time: 12/22/97 18:00

Date and Time: 12/23/97 10:30 Date and Time: 12/23/97 10:30

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

COC Number:	AIA	Project:	AOC2 RFI GROUNDWATER SAMPLING EVNT 2	PO#:				
QA Level:	3	Number:	135681.A2 .04	Lab.:	Paragon Analytics, Inc			
		Manager:		Page 1				
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Comments	
01	AIA001TB1	FIELDQC	0	0	2/18/98 09:30	WQ	3	GW VOC
02	AIA002EB1	FIELDQC	0	0	2/18/98 10:36	WQ	3	GW VOC
03	AIA004	GMI-22-07M	0	0	2/18/98 14:25	WG	3	GW VOC
04	AIA006	MW-3	0	0	2/18/98 11:54	WG	3	GW VOC
05	AIA006FD1	FIELDQC	0	0	2/18/98 11:54	WG	3	GW VOC
06	AIA007	LSA1628-J	0	0	2/18/98 11:45	WG	3	GW VOC
07	AIA008	WITCTA010	0	0	2/18/98 14:16	WG	3	GW VOC
08	AIA009	WCHMMHTA012	0	0	2/18/98 15:20	WG	3	GW VOC

Sampled by: Marvin Date and Time: 2/18/98 16:50 Relinquished by: Marvin Date and Time: 2/18/98 17:00

Additional Samplers:

Received by LAB: PAT J Hunter Date and Time: 9:30a 2/19/98 Relinquished by: _____ Date and Time: _____

Received by LAB: _____ Date and Time: _____ Relinquished by: _____ Date and Time: _____

Shipped by: UPS BUS FED-EX HAND COTHE Shipping No: _____ Remarks: _____

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date 2/19/98 5:02:46 PM

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COC Number:	AIA	Project: AOC2 RET GROUNDWATER SMPLNG EVNT 2	Page 1					
QA Level:	3	Number: 138681.A2 .04	Lab: Paragon Analytics, Inc					
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AIA003	GMI-22-05M	0	0	2/19/98 09:45	WG	3	GW VOC	C1
AIA010TB1	FIELDQC	0	0	2/19/98 07:30	WG	3	GW VOC	Q2
AIA011EB1	FIELDQC	0	0	2/19/98 16:45	WG	3	GW VOC	C3
AIA012AB1	FIELDQC	0	0	2/19/98 16:20	WG	3	GW VOC	C4
AIA014	GMI-22-04M	0	0	2/19/98 11:47	WG	3	GW VOC	C5
AIA016	GMI-22-03M	0	0	2/19/98 16:48	WG	3	GW VOC	C6
AIA016	USGS#4T	0	0	2/19/98 16:10	WG	3	GW VOC	C7
AIA017	WCHMMHTA09	0	0	2/19/98 11:45	WG	9	GW VOC	C8
Use Extra Samples for MS/MSD.								
AIA018FD1	FIELDQC	0	0	2/19/98 11:45	WG	3	GW VOC	C9
AIA019	WCHMMHTA010	0	0	2/19/98 16:10	WG	3	GW VOC	C10
AIA020	WCHMMHTA011	0	0	2/19/98 10:25	WG	3	GW VOC	C11
AIA021	WCHMMHTA013	0	0	2/19/98 08:40	WG	3	GW VOC	C12

Sampled by: Mark Date and Time: 2/19/98 17:00 Relinquished by: Mark Date and Time: 2/19/98 17:00

Additional Samplers:

Received by LAB:	<u>Dick</u>	Date and Time:	2/20/98 09:30	Relinquished by:		Date and Time:	652
Received by LAB:		Date and Time:		Relinquished by:		Date and Time:	149
Shipped by:	UPS BUS FED-EX HAND Other	Shipping No:					
Remarks:							

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652 550

Report Print Date: 2/20/98 11:33:39 AM

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

COC Number:		Project:		RFI GROUNDWATER SHIPING EVNT 2		Manager:		PO#:		Comments	
AIA		Number:		138681 . A2.04						Lab: Paragon Analytics, Inc	
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested				
AIA013	GMI-22-06M	0	0	2/20/98 09:37	WG	3	GW_VOC				
AIA022TB1	FIELDQC	0	0	2/20/98 07:30	WQ	3	GW_VOC				
AIA023EB1	FIELDQC	0	0	2/20/98 11:16	WQ	3	GW_VOC				
AIA024	WCHMMHTA007	0	0	2/20/98 11:20	WG	3	GW_VOC				
AIA025	WCHMMHTA003	0	0	2/20/98 09:46	WG	3	GW_VOC				
AIA026	WCHMMHTA004	0	0	2/20/98 09:00	WG	3	GW_VOC				

21
32
03
04
05
06

Maurice Date and Time: 2/20/98 11:20 Relinquished by: Maurice Date and Time: 2/20/98 11:45

Sampled by: _____

Additional Samplers: _____

Received by-LAB: Fed Ex Date and Time: 2/21/98 09:30 Relinquished by: _____ Date and Time: 2/21/98 30

Received by LAB: Paragon Date and Time: 2/21/98 09:30 Relinquished by: _____ Date and Time: 2/21/98 30

Shipper: UPS BUS FED-EX HAND Other Shipping No: 00000000000000000000000000000000

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CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date 2/24/98 5:11:40 PM

Project: AOC2 REI GROUNDWATER SMPLNG EVNT 2							PO#:	Page 1	
Number: 138681-A2-04							Lab: Paragon Analytics, Inc		
COC Number:	AIA	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
82	AIA039TB1	FIELDQC	0	0	2/24/98 07:30	WQ	3	GW VOC	
03	AIA040EB1	FIELDQC	0	0	2/24/98 16:30	WQ	3	GW VOC	
04	AIA041	MW-57	0	0	2/24/98 10:56	WG	3	GW VOC	
05	AIA042	HM-116	0	0	2/24/98 13:25	WG	3	GW VOC	
06	AIA043	HM-98	0	0	2/24/98 14:10	WG	3	GW VOC	
07	AIA044	HM-117	0	0	2/24/98 16:46	WG	3	GW VOC	
08	AIA045FD1	FIELDQC	0	0	2/24/98 16:45	WG	3	GW VOC	
09	AIA046	HM-118	0	0	2/24/98 15:45	WG	3	GW VOC	
10	AIA047	HM-119	0	0	2/24/98 14:43	WG	3	GW VOC	
11	AIA048	HM-126	0	0	2/24/98 13:22	WG	3	GW VOC	
12	AIA049	WCHMMHTA001	0	0	2/24/98 15:25	WG	3	GW VOC	
13	AIA050	WCHMMHTA002	0	0	2/24/98 12:50	WG	3	GW VOC	
14	AIA051	WCHMMHTA005	0	0	2/24/98 09:55	WG	3	GW VOC	
15	AIA052	WCHMMHTA006	0	0	2/24/98 09:25	WG	3	GW VOC	
	AIA053	WCHMMHTA014	0	0	2/24/98 10:00	WG	3	GW VOC	

- NO MSD
- \$200 only!

Mosseri Date and Time: 2/24/98 17:30
Mosseri Relinquished by: *Mosseri* Date and Time: 2/24/98 17:30

Sampled by:

Mosseri Additional Samplers:

Received by LAB: *J. Hunter* Date and Time: *2/25/98 10am* Relinquished by: _____

Received by LAB: _____ Date and Time: _____ Relinquished by: _____

Shipped by: UPS BUS ~~FED-EX~~ HAND Other _____ Shipping No: *80399968068* Date and Time: _____

Remarks: *GP*

rpcl - 100 - updated 9/03/99

98-04-181

652 554

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date: 4/21/98 4:57:31 PM

COC Number:	AIB	Project: AOC2 RFI Groundwater Sampling, Event 3			PO#:	Page 1		
QA Level:	3	Number: 138681.A2.04			Manager:	Lab: Paragon Analytics, Inc		
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Comments	
-01	AIB006TB1	FIELDQC	0	0	4/21/98 08:30	WQ	3	GW_VOC
-02	AIB007EB1	FIELDQC	0	0	4/21/98 16:55	WQ	3	GW_VOC
-03	AIB008AB1	FIELDQC	0	0	4/21/98 14:40	WQ	3	GW_VOC
-04	AIB009	GMI-22-03M	0	0	4/21/98 12:10	WG	3	GW_VOC
-05	AIB010	GMI-22-04M	0	0	4/21/98 10:48	WG	3	GW_VOC
-06	AIB011	GMI-22-06M	0	0	4/21/98 14:32	WG	3	GW_VOC
-07	AIB012	WCHMMHTA013	0	0	4/21/98 14:20	WG	3	GW_VOC
-08	AIB013	MW-57	0	0	4/21/98 15:15	WG	3	GW_VOC
-09	AIB014	WCHMMHTA009	0	0	4/21/98 16:15	WG	9	GW_VOC Use Extra Samples for MS/MSD.
-10	AIB015FD1	FIELDQC	0	0	4/21/98 16:15	WG	3	GW_VOC
-11	AIB016	WCHMMHTA014	0	0	4/21/98 11:20	WG	3	GW_VOC

8260 only!

Karen 4/21/98 13:07 Relinquished by: *Karen*

Sampled by: *Karen* Date and Time: 4/21/98 13:07
 Additional Samplers:

Received by LAB: *Ryan* Date and Time: 4/22/98 08:00 Relinquished by: _____ Date and Time: _____
 Received by LAB: _____ Date and Time: _____ Relinquished by: _____ Date and Time: _____
 Shipped by: UPS BUS FED-EX HAND Other _____ Shipping No: _____
 Remarks: *DA 04-22-98*

04/04/98

CH2M HILL Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date: 4/22/98 5:33:10 PM

Project: AOC2 REI Groundwater Sampling, Event 3							Manager: Margaret O'Hare	PO#:	Page #:
COC Number:	AIB	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
01	AIB017TB1	FIELDQC	0	0	4/22/98 08:00	WQ	3	GW VOC	
02	AIB018EB1	FIELDQC	0	0	4/22/98 17:40	WQ	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
03	AIB019	LSA1628-3	0	0	4/22/98 11:55	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
04	AIB020	GMI-22-07M	0	0	4/22/98 16:50	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
05	AIB022	WCHMMHTA012	0	0	4/22/98 09:40	WG	18	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	Use Extra Samples for MS/MSD.
06	AIB023FD1	FIELDQC	0	0	4/22/98 09:40	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
07	AIB024	GMI-22-02M	0	0	4/22/98 11:40	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
08	AIB025	HM-120	0	0	4/22/98 15:18	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
09	AIB026	HM-121	0	0	4/22/98 14:17	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, GW VOC	
10	AIB027	MW-3	0	0	4/22/98 10:26	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, KGS KGS 4/22/98	No VOCs, VOCs were collected 4/20/98
11	AIB028FD1	FIELDQC	0	0	4/22/98 10:26	WG	6	GW ALK/GW ANION, GW CATIONS, GW TOC, KGS KGS 4/22/98	No VOCs, VOCs were collected 4/20/98

Sampled by: J. Jones Date and Time: 4/22/98 17:50 Relinquished by: J. Jones Date and Time: 4/22/98 17:50

Additional Samplers: _____ Received by LAB: J. Jones Date and Time: 4/23/98 9:30 Relinquished by: _____ Date and Time: _____

Received by LAB: _____ Date and Time: _____ Relinquished by: _____ Date and Time: _____

Shipped by: UPS BUS FED-EX HAND Other _____ Shipping No: _____ Date and Time: _____ Remarks: 4/23/98 - A

6521555

4/23/98

CH2M HILL
Chain of Custody Form

NAS FW JRB AOC 2

Report Print Date: 4/22/98 5:33:16 PM

COC Number:	AIB		Project: AOC2 RFI Groundwater Sampling, Event 3				PO#:		
QA Level:	3		Number: 138681-A2-04				Manager:	Margaret O'Hare	
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Comments		
AIB018EB1	FIELDQC	0	0	4/22/98 17:40	WQ	3	GW METH		
AIB019	LSA1628-3	0	0	4/22/98 11:55	WG	3	GW METH		
AIB020	GMI-22-07M	0	0	4/22/98 16:50	WG	3	GW METH		
AIB022	WCHMHTA012	0	0	4/22/98 09:40	WG	9	GW METH		
Use Extra Samples for MS/MSD.									
AIB023FD1	FIELDQC	0	0	4/22/98 09:40	WG	3	GW METH		
AIB024	GMI-22-02M	0	0	4/22/98 11:40	WG	3	GW METH		
AIB026	HM-140	0	0	4/22/98 16:18	WG	3	GW METH		
AIB026	HM-121	0	0	4/22/98 14:17	WG	3	GW METH		
AIB027	MW-3	0	0	4/22/98 10:26	WG	3	GW METH		
No VOCs, VOCs were collected 4/22/98 - 4/22/98 -									
AIB028FD1	FIELDQC	0	0	4/22/98 10:26	WG	3	GW METH		
No VOCs, VOCs were collected 4/22/98 -									

Sampled by: _____	Date and Time: _____	Relinquished by: _____
Additional Samplers: _____		
Received by LAB: _____	Date and Time: _____	Relinquished by: _____
Received by LAB: _____	Date and Time: _____	Relinquished by: _____
Shipped by: UPS BUS FED-EX HAND Other _____	Shipping No: _____	Date and Time: _____
Remarks: _____		

✓1 C'~4~11~!

CH2M HILL
Chain of Custody Form
NAS FW JRB AOC 2

Report Print Date: 4/23/98 5:34:14 PM

COC Number: AIB 3		Project: AOC2 RFI Groundwater Sampling, Event 3 Number: 138681.A2.04		Manager: Margaret O'Hare		PO#: [REDACTED] Lab: Paragon Analytics, Inc		Page 2	
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments	
AIB021	GMI-22-06M	0	0	4/23/98 08:40	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC		
AIB028TB1	FIELDQC	0	0	4/23/98 07:46	WG	3	GW_VOC		
AIB030AB1	FIELDQC	0	0	4/23/98 16:09	WG	3	GW_VOC		
AIB031EB1	FIELDQC	0	0	4/23/98 17:10	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC		
AIB032	WTCTA010	0	0	4/23/98 09:56	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC		
AIB034	SPOT-35-4	0	0	4/23/98 12:46	WG	3	GW_VOC		
AIB036	MW-5/B	0	0	4/23/98 14:23	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC		
AIB037	WCHMMHTA001	0	0	4/23/98 16:30	WG	6	GW_ALK/GW_ANION, GW_CATIONS, GW_TOC, GW_VOC		

H. Jones Date and Time: 4/23/98 1740 Relinquished by: ✓H. Jones *H. Jones* Date and Time: 4/23/98 1740 Relinquished by: ✓H. Jones

Sampled by:

Additional Samplers:

Received by LAB: *Jamini Thur* Date and Time: 4/29/98 10:00 Relinquished by: _____

Received by LAB: _____ Date and Time: _____ Relinquished by: _____

Shipped by: UPS BUS FED-EX HAND Other _____ Shipping No: _____

Remarks:

CH2M HILL

Chain of Custody Form

Report Print Date: 4/23/98 5:27:26 PM

NAS FW JRB AOC 2

COC Number:	AIB	Project: AOC2 RFI Groundwater Sampling, Event 3			PO#:	Page 1		
QA Level:	3	Number: 138681.A2.04			Lab: CH2M HILL, Corvallis, OR			
Sample ID	Station ID	Begin Depth	End Depth	Date & Time Collected	Matrix	Number of Containers	Analysis Requested	Comments
AIB021	GMI-22-05M	0	0	4/23/98 08:40	WG	3	GW_METH	
AIB031EB1	FIELDQC	0	0	4/23/98 17:10	WQ	3	GW_METH	
AIB032	WITCTA010	0	0	4/23/98 09:55	WG	3	GW_METH	
AIB036	MW-57B	0	0	4/23/98 14:23	WG	3	GW_METH	
AIB037	WCHMHTA001	0	0	4/23/98 16:30	WG	3	GW_METH	

Sampled by: _____	Date and Time: _____	Relinquished by: _____	Date and Time: _____
Additional Samplers: _____	_____	_____	_____
Received by LAB: _____	Date and Time: _____	Relinquished by: _____	Date and Time: _____
Received by LAB: _____	Date and Time: _____	Relinquished by: _____	Date and Time: _____
Shipped by: UPS BUS FED-EX HAND Other _____	Shipping No: _____	_____	_____
Remarks: _____	_____	_____	_____

TAB

G-2 SAMPLE CHRONOLOGY

Sample Chronology

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
7154	AIB018EB1	RSK-175	EB	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB019	RSK-175	LR	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB019	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB020	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB022	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB023FD1	RSK-175	FD	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB024	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB025	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB026	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB027	RSK-175	N	4/22/98	4/23/98	4/29/98	4/29/98
7154	AIB028FD1	RSK-175	FD	4/22/98	4/23/98	4/29/98	4/29/98
7154	LCS0429	RSK-175	BS				4/29/98
7154	LCSD0429	RSK-175	BS				4/29/98
7163	AIB021	RSK-175	N	4/23/98	4/24/98	4/29/98	4/29/98
7163	AIB031EB1	RSK-175	EB	4/23/98	4/24/98	4/29/98	4/29/98
7163	AIB032	RSK-175	LR	4/23/98	4/24/98	4/29/98	4/29/98
7163	AIB032	RSK-175	N	4/23/98	4/24/98	4/29/98	4/29/98
7163	AIB036	RSK-175	N	4/23/98	4/24/98	4/29/98	4/29/98
7163	AIB037	RSK-175	N	4/23/98	4/24/98	4/29/98	4/29/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
7163	LCS0429	RSK-175	BS				4/29/98
7163	LCSD0429	RSK-175	BS				4/29/98
9711001	AHA001EB1	SW8260A	EB	10/31/97	11/1/97	11/12/97	11/12/97
9711001	AHA002TB1	SW8260A	TB	10/31/97	11/1/97	11/12/97	11/12/97
9711001	AHA003	SW8260A	N	10/31/97	11/1/97	11/12/97	11/12/97
9711001	AHA004	SW8260A	N	10/31/97	11/1/97	11/12/97	11/12/97
9711001	AHA005	SW8260A	N	10/31/97	11/1/97	11/12/97	11/12/97
9711018	AHA006AB1	SW8260A	AB	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA007EB1	SW8260A	EB	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA008TB1	SW8260A	TB	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA009	SW8260A	N	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA010	SW8260A	N	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA010MS1	SW8260A	MS	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA010SD1	SW8260A	SD	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA011FD1	SW8260A	FD	11/3/97	11/4/97	11/12/97	11/12/97
9711018	AHA012	SW8260A	N	11/3/97	11/4/97	11/12/97	11/12/97
9711193	AHA013TB1	SW8260A	TB	11/17/97	11/18/97	11/21/97	11/21/97
9711193	AHA014EB1	SW9060	EB	11/17/97	11/18/97	11/21/97	11/21/97
9711193	AHA014EB1	SW9060	EB	11/17/97	11/22/97	12/5/97	12/5/97
9711193	AHA015	SW8260A	N	11/17/97	11/18/97	11/24/97	11/24/97
9711193	AHA015MS1	SW8260A	MS	11/17/97	11/18/97	11/24/97	11/24/97

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9711193	AHA015SD1	SW8260A	SD	11/17/97	11/18/97	11/24/97	11/24/97
9711193	AHA016	SW8260A	N	11/17/97	11/18/97	11/24/97	11/24/97
9711209	AHA017TB1	SW8260A	TB	11/18/97	11/19/97	11/24/97	11/24/97
9711209	AHA018EB1	SW8260A	EB	11/18/97	11/19/97	11/24/97	11/24/97
9711209	AHA019	SW8260A	N	11/18/97	11/19/97	11/24/97	11/24/97
9711209	AHA020FD1	SW8260A	FD	11/18/97	11/19/97	11/24/97	11/24/97
9711222	AHA021TB1	SW8260A	TB	11/19/97	11/20/97	11/24/97	11/24/97
9711222	AHA022AB1	SW8260A	AB	11/19/97	11/20/97	11/24/97	11/24/97
9711222	AHA023EB1	SW8260A	EB	11/19/97	11/20/97	11/24/97	11/24/97
9711222	AHA024	SW8260A	N	11/19/97	11/20/97	11/24/97	11/24/97
9711222	AHA025	SW8260A	N	11/19/97	11/20/97	11/24/97	11/24/97
9711254	AHA031TB1	SW8260A	TB	11/21/97	11/22/97	11/24/97	11/24/97
9711254	AHA032EB1	SW8260A	EB	11/21/97	11/22/97	11/24/97	11/24/97
9711254	AHA032EB1	SW9060	EB	11/21/97	11/22/97	12/5/97	12/5/97
9711262	AHA026TB1	SW8260A	TB	11/20/97	11/24/97	11/24/97	11/24/97
9711262	AHA027EB1	SW8260A	EB	11/20/97	11/24/97	11/24/97	11/24/97
9711262	AHA027EB1	SW9060	EB	11/20/97	11/24/97	12/5/97	12/5/97
9711262	AHA028	SW8260A	N	11/20/97	11/24/97	11/25/97	11/25/97
9711262	AHA028MS1	SW8260A	MS	11/20/97	11/24/97	11/25/97	11/25/97
9711262	AHA028SD1	SW8260A	SD	11/20/97	11/24/97	11/25/97	11/25/97

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9711262	AHA029	SW8260A	N	11/20/97	11/24/97	11/25/97	11/25/97
9711262	AHA030	SW8260A	N	11/20/97	11/24/97	11/25/97	11/25/97
9711302	AHA034TB1	SW8260A	TB	11/25/97	11/26/97	12/3/97	12/3/97
9711302	AHA035EB1	SW8260A	EB	11/25/97	11/26/97	12/3/97	12/3/97
9711302	AHA036	SW8260A	N	11/25/97	11/26/97	12/5/97	12/5/97
9711317	AHA037TB1	SW8260A	TB	11/26/97	11/28/97	12/3/97	12/3/97
9711317	AHA038EB1	SW8260A	EB	11/26/97	11/28/97	12/3/97	12/3/97
9711317	AHA038EB1	SW9060	EB	11/26/97	11/28/97	12/3/97	12/3/97
9711317	AHA039	SW8260A	N	11/26/97	11/28/97	12/5/97	12/5/97
9711317	AHA040FD1	SW8260A	FD	11/26/97	11/28/97	12/5/97	12/5/97
9712023	AHA041TB1	SW8260A	TB	12/1/97	12/3/97	12/11/97	12/11/97
9712023	AHA042EB1	SW8260A	EB	12/1/97	12/3/97	12/11/97	12/11/97
9712023	AHA043	SW8260A	N	12/1/97	12/3/97	12/11/97	12/11/97
9712095	AHA044TB1	SW8260A	TB	12/6/97	12/9/97	12/11/97	12/11/97
9712095	AHA045EB1	SW8260A	EB	12/6/97	12/9/97	12/11/97	12/11/97
9712095	AHA046	SW8260A	N	12/6/97	12/9/97	12/11/97	12/11/97
9712123	AHA047TB1	SW8260A	TB	12/10/97	12/11/97	12/15/97	12/15/97
9712123	AHA048EB1	SW8260A	EB	12/10/97	12/11/97	12/15/97	12/15/97
9712123	AHA049	SW8260A	N	12/10/97	12/11/97	12/17/97	12/17/97
9712123	AHA050	SW8260A	N	12/10/97	12/11/97	12/17/97	12/17/97
9712123	AHA051	SW8260A	N	12/10/97	12/11/97	12/17/97	12/17/97

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712123	AHA052	SW8260A	N	12/10/97	12/11/97	12/11/97	12/17/97
9712123	AHA053	SW8260A	N	12/10/97	12/11/97	12/11/97	12/17/97
9712123	AHA054	SW8260A	N	12/10/97	12/11/97	12/11/97	12/17/97
9712185	AHA060TB1	SW8260A	TB	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA061AB1	SW8260A	AB	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA062EB1	E3101	EB	12/16/97	12/17/97	12/22/97	12/22/97
9712185	AHA062EB1	SW6010A	EB	12/16/97	12/17/97	12/22/97	12/24/97
9712185	AHA062EB1	SW8260A	EB	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA062EB1	SW9056	EB	12/16/97	12/17/97.	12/19/97	12/19/97
9712185	AHA062EB1	SW9060	EB	12/16/97	12/17/97	1/6/98	1/6/98
9712185	AHA063	E3101	N	12/16/97	12/17/97	12/22/97	12/22/97
9712185	AHA063	SW6010A	N	12/16/97	12/17/97	12/22/97	12/24/97
9712185	AHA063	SW8260A	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA063	SW9056	N	12/16/97	12/17/97	12/19/97	12/19/97
9712185	AHA063	SW9060	N	12/16/97	12/17/97	1/6/98	1/6/98
9712185	AHA064	E3101	N	12/16/97	12/17/97	12/22/97	12/22/97
9712185	AHA064	SW6010A	N	12/16/97	12/17/97	12/22/97	12/24/97
9712185	AHA064	SW8260A	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA064	SW9056	N	12/16/97	12/17/97	12/19/97	12/19/97
9712185	AHA064	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97

SDG	Field ID	Method	QAQC	Type	Sample Date	Receive Date	Extract ID	Analysis Date
9712185	AHA064	SW9060	N		12/16/97	12/17/97		1/6/98
9712185	AHA064MS1	SW9060	MS		12/16/97	12/17/97		1/6/98
9712185	AHA064SD1	SW9060	SD		12/16/97	12/17/97		1/6/98
9712185	AHA065	E310.1	N		12/16/97	12/17/97		12/22/97
9712185	AHA065	SW6010A	N		12/16/97	12/17/97		12/22/97
9712185	AHA065	SW8260A	N		12/16/97	12/17/97		12/22/97
9712185	AHA065	SW9056	N		12/16/97	12/17/97		12/24/97
9712185	AHA065	SW9056	N		12/16/97	12/17/97		12/23/97
9712185	AHA065	SW9060	N		12/16/97	12/17/97		12/19/97
9712185	AHA066	E310.1	N		12/16/97	12/17/97		12/23/97
9712185	AHA066	SW6010A	N		12/16/97	12/17/97		12/22/97
9712185	AHA066	SW8260A	N		12/16/97	12/17/97		12/22/97
9712185	AHA066	SW9056	N		12/16/97	12/17/97		12/22/97
9712185	AHA066	SW9056	N		12/16/97	12/17/97		12/24/97
9712185	AHA066	SW9060	N		12/16/97	12/17/97		12/23/97
9712185	AHA066D	SW6010A	LR		12/16/97	12/17/97		12/23/97
9712185	AHA066MS1	SW6010A	MS		12/16/97	12/17/97		1/6/98
9712185	AHA066MS1	SW8260A	MS		12/16/97	12/17/97		12/24/97
9712185	AHA066MS1	SW9056	MS		12/16/97	12/17/97		12/19/97
9712185	AHA066MS1	SW9056	MS		12/16/97	12/17/97		12/23/97
9712185	AHA066SD1	SW6010A	SD		12/16/97	12/17/97		12/22/97

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712185	AHA066SD1	SW8260A	SD	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA066SD1	SW9056	SD	12/16/97	12/17/97	12/19/97	12/19/97
9712185	AHA066SD1	SW9056	SD	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	E310.1	N	12/16/97	12/17/97	12/22/97	12/22/97
9712185	AHA067	SW6010A	N	12/16/97	12/17/97	12/22/97	12/24/97
9712185	AHA067	SW8260A	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/22/97	12/24/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA067	SW9056	N	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA068	E310.1	N	12/16/97	12/17/97	12/22/97	12/27/97
9712185	AHA068	SW6010A	N	12/16/97	12/17/97	12/22/97	12/27/97
9712185	AHA068	SW8260A	N	12/16/97	12/17/97	12/22/97	12/27/97
9712185	AHA068	SW9056	N	12/16/97	12/17/97	12/22/97	12/27/97
9712185	AHA068	SW9060	N	12/16/97	12/17/97	12/22/97	12/27/97
9712185	AHA069FD1	E310.1	FD	12/16/97	12/17/97	12/22/97	12/27/97
9712185	AHA069FD1	SW6010A	FD	12/16/97	12/17/97	12/22/97	12/24/97
9712185	AHA069FD1	SW8260A	FD	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA069FD1	SW9056	FD	12/16/97	12/17/97	12/19/97	12/19/97
9712185	AHA069FD1	SW9056	FD	12/16/97	12/17/97	12/23/97	12/23/97
9712185	AHA069FD1	SW9060	FD	12/16/97	12/17/97	12/19/97	12/19/97

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712185	LCSW	SW6010A	BS	12/22/97	12/22/97	12/22/97	12/24/97
9712185	LCSWD	SW6010A	BD	12/22/97	12/22/97	12/22/97	12/24/97
9712202	AHA070TB1	SW8260A	TB	12/17/97	12/18/97	12/26/97	12/26/97
9712202	AHA071EB1	E310 1	EB	12/17/97	12/18/97	12/29/98	
9712202	AHA071EB1	SW6010A	EB	12/17/97	12/18/97	12/31/97	1/6/98
9712202	AHA071EB1	SW8260A	EB	12/17/97	12/18/97	12/26/97	12/26/97
9712202	AHA071EB1	SW9056	EB	12/17/97	12/18/97	12/19/97	12/19/97
9712202	AHA071EB1	SW9060	EB	12/17/97	12/18/97	12/29/98	1/12/98
9712202	AHA072	E310 1	N	12/17/97	12/18/97	12/29/98	1/2/98
9712202	AHA072	SW6010A	N	12/17/97	12/18/97	12/31/97	1/6/98
9712202	AHA072	SW8260A	N	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA072	SW9056	N	12/17/97	12/18/97	12/19/97	12/19/97
9712202	AHA072	SW9060	N	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA073FD1	E310 1	FD	12/17/97	12/18/97	12/29/98	1/2/98
9712202	AHA073FD1	SW6010A	FD	12/17/97	12/18/97	12/31/97	1/6/98
9712202	AHA073FD1	SW8260A	FD	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA073FD1	SW9056	FD	12/17/97	12/18/97	12/19/97	12/19/97
9712202	AHA073FD1	SW9056	FD	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA073FD1	SW9060	FD	12/17/97	12/18/97	1/1/29/98	1/1/29/98
9712202	AHA074	SW8260A	N	12/17/97	12/18/97	12/23/97	12/23/97

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712202	AHA075	E3101	N	12/17/97	12/18/97	12/98	1/2/98
9712202	AHA075	SW6010A	N	12/17/97	12/18/97	12/31/97	1/6/98
9712202	AHA075	SW8260A	N	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA075	SW9056	N	12/17/97	12/18/97	12/19/97	12/19/97
9712202	AHA075	SW9056	N	12/17/97	12/18/97	12/27/97	12/27/97
9712202	AHA075	SW9060	N	12/17/97	12/18/97	12/19/97	1/1/2/98
9712202	AHA076	SW8260A	N	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA077	SW8260A	N	12/17/97	12/18/97	12/23/97	12/23/97
9712202	AHA078	SW8260A	N	12/17/97	12/18/97	12/23/97	12/23/97
9712202	LCSW	SW6010A	BS	12/31/97	12/31/97	1/6/98	1/6/98
9712202	LCSWD	SW6010A	BD	12/31/97	12/31/97	1/6/98	1/6/98
9712205	AHA079TB1	SW8260A	TB	12/18/97	12/19/97	12/30/97	12/30/97
9712205	AHA080EB1	SW8260A	EB	12/18/97	12/19/97	12/31/97	1/6/98
9712205	AHA081	SW8260A	N	12/18/97	12/19/97	12/30/97	12/30/97
9712205	AHA082	SW8260A	N	12/18/97	12/19/97	12/30/97	12/30/97
9712205	AHA083	SW8260A	N	12/18/97	12/19/97	12/30/97	12/30/97
9712205	AHA084	SW8260A	N	12/18/97	12/19/97	12/30/97	12/30/97
9712205	AHA085	SW8260A	N	12/18/97	12/19/97	12/30/97	12/30/97
9712227	AHA086TB1	SW8260A	TB	12/19/97	12/20/97	1/2/98	1/2/98
9712227	AHA087EB1	SW8260A	EB	12/19/97	12/20/97	1/2/98	1/2/98
9712227	AHA088AB1	SW8260A	AB	12/19/97	12/20/97	1/2/98	1/2/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712227	AHA089	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA090	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA091	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA092	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA093	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA094	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA095	SW8260A	N	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA095MSI	SW8260A	MS	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA095SDI	SW8260A	SD	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA096FDI	SW8260A	FD	12/19/97	12/20/97	12/30/97	12/30/97
9712227	AHA097TB1	SW8260A	TB	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA098EB1	SW8260A	EB	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA099	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA100	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA101	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA102	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA103	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA104	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA105	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA106	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA107	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712240	AHA103	SW8260A	N	12/22/97	12/23/97	1/2/98	1/2/98
9712240	AHA109FD1	SW8260A	FD	12/22/97	12/23/97	1/2/98	1/2/98
9712254	AHA056EB1	E310.1	EB	12/23/97	12/24/97	12/30/97	12/30/97
9712254	AHA056EB1	SW6010A	EB	12/23/97	12/24/97	12/31/97	1/6/98
9712254	AHA056EB1	SW8260A	EB	12/23/97	12/24/97	12/26/97	12/26/97
9712254	AHA056EB1	SW9056	EB	12/23/97	12/24/97	12/24/97	12/24/97
9712254	AHA056EB1	SW9060	EB	12/23/97	12/24/97	1/1/98	1/1/98
9712254	AHA056EB1	SW9060	MS	12/23/97	12/24/97	1/1/98	1/1/98
9712254	AHA056EB1	SW9060	SD	12/23/97	12/24/97	1/1/98	1/1/98
9712254	AHA057	E310.1	N	12/23/97	12/24/97	12/30/97	12/30/97
9712254	AHA057	SW6010A	N	12/23/97	12/24/97	12/31/97	1/6/98
9712254	AHA057	SW8260A	N	12/23/97	12/24/97	12/26/97	12/26/97
9712254	AHA057	SW9056	N	12/23/97	12/24/97	12/24/97	12/24/97
9712254	AHA057	SW9056	N	12/23/97	12/24/97	12/27/97	12/27/97
9712254	AHA057	E310.1	N	12/23/97	12/24/97	12/27/97	12/27/97
9712254	AHA057	SW9060	N	12/23/97	12/24/97	1/1/98	1/1/98
9712254	AHA058	E310.1	N	12/23/97	12/24/97	12/30/97	12/30/97
9712254	AHA058	SW6010A	N	12/23/97	12/24/97	12/31/97	1/6/98
9712254	AHA058	SW8260A	N	12/23/97	12/24/97	12/26/97	12/26/97
9712254	AHA058	SW9056	N	12/23/97	12/24/97	12/27/97	12/27/97
9712254	AHA058	SW9056	N	12/23/97	12/24/97	1/1/98	1/1/98
9712254	AHA058	SW9060	N	12/23/97	12/24/97	1/1/98	1/1/98

SDG	Field ID	Method	QAQC	Type	Sample Date	Receive Date	Extract Date	Analysis Date
9712254	AHA059	E310.1	N		12/23/97	12/24/97	12/30/97	12/30/97
9712254	AHA059	SW6010A	N		12/23/97	12/24/97	12/31/97	1/6/98
9712254	AHA059	SW8260A	N		12/23/97	12/24/97	12/26/97	12/26/97
9712254	AHA059	SW9056	N		12/23/97	12/24/97	12/24/97	12/24/97
9712254	AHA059	SW9056	N		12/23/97	12/24/97	12/27/97	12/27/97
9712254	AHA059	SW9060	N		12/23/97	12/24/97	1/14/98	1/14/98
9712254	LCSW	SW6010A	BS		12/31/97	12/31/97	12/31/97	1/6/98
9712254	LCSWD	SW6010A	BD		12/31/97	12/31/97	12/31/97	1/6/98
9802049	AHA015	SW9060	N		11/17/97	11/18/97	12/17/97	12/17/97
9802049	AHA028	SW9060	N		11/20/97	11/24/97	12/17/97	12/18/97
9802049	AHA029	SW9060	N		11/20/97	11/24/97	12/17/97	12/18/97
9802049	AHA030	SW9060	N		11/20/97	11/24/97	12/17/97	12/18/97
9802049	AHA033	SW9060	N		11/21/97	11/22/97	12/17/97	12/18/97
9802049	AHA039	SW9060	N		11/26/97	11/28/97	12/17/97	12/23/97
9802049	AHA039MSI	SW9060	MS		11/26/97	11/28/97	12/22/97	12/23/97
9802049	AHA039SD1	SW9060	SD		11/26/97	11/28/97	12/22/97	12/23/97
9802049	AHA040FD1	SW9060	FD		11/26/97	11/28/97	12/22/97	12/23/97
9802130	AIAC01TB1	SW8260A	TB		2/18/98	2/19/98	2/24/98	2/24/98
9802130	AIAC02EB1	SW8260A	EB		2/18/98	2/19/98	2/24/98	2/24/98
9802130	AIAC04	SW8260A	N		2/18/98	2/19/98	2/24/98	2/24/98
9802130	AIAC05	SW8260A	N		2/18/98	2/19/98	2/24/98	2/24/98

<u>SDG</u>	<u>Field ID</u>	<u>Method</u>	<u>QAQC Type</u>	<u>Sample Date</u>	<u>Receive Date</u>	<u>Extract Date</u>	<u>Analysis Date</u>
9802130	AIA006FD1	SW8260A	FD	2/18/98	2/19/98	2/24/98	2/24/98
9802130	AIA007	SW8260A	N	2/18/98	2/19/98	2/24/98	2/24/98
9802130	AIA008	SW8260A	N	2/18/98	2/19/98	2/24/98	2/24/98
9802130	AIA009	SW8260A	N	2/18/98	2/19/98	2/24/98	2/24/98
9802151	AIA003	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA010TB1	SW8260A	TB	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA011EB1	SW8260A	EB	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA012AB1	SW8260A	AB	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA014	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA015	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA016	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA017	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA017DL	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA017MS	SW8260A	MS	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA017MSD	SW8260A	SD	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA018FD1	SW8260A	FD	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA019	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA020	SW8260A	N	2/19/98	2/20/98	2/24/98	2/24/98
9802151	AIA021	SW8260A	N	2/19/98	2/20/98	2/23/98	2/23/98
9802151	AIA013	SW8260A	N	2/20/98	2/21/98	2/25/98	2/25/98
9802159	AIA022TB1	SW8260A	TB	2/20/98	2/21/98	2/25/98	2/25/98

SDG	Field ID	Method	QAQC	Type	Sample Date	Receive Date	Extract Date	Analysis Date
9802159	AIA023EB1	SW8260A	EB		2/20/98	2/21/98	2/25/98	2/25/98
9802159	AIA024	SW8260A	N		2/20/98	2/21/98	2/25/98	2/25/98
9802159	AIA025	SW8260A	N		2/20/98	2/21/98	2/25/98	2/25/98
9802159	AIA026	SW8260A	N		2/20/98	2/21/98	2/25/98	2/25/98
9802168	AIA027TB1	SW8260A	TB		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA028EB1	SW8260A	EB		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA029AB1	SW8260A	AB		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA030	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA031	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA031	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA031MS	SW8260A	MS		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA031SD	SW8260A	SD		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA032FD1	SW8260A	FD		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA033	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA034	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA035	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA036	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA037	SW8260A	N		2/23/98	2/24/98	2/26/98	2/26/98
9802168	AIA038	SW8260A	N		2/23/98	2/24/98	3/2/98	3/2/98
9802180	AIA039TB1	SW8260A	TB		2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA040EB1	SW8260A	EB		2/24/98	2/25/98	3/2/98	3/2/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9802180	AIA041	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA042	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA043	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA044	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA045FD1	SW8260A	FD	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA046	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA047	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA048	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA049	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA050	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA051	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA052	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9802180	AIA053	SW8260A	N	2/24/98	2/25/98	3/2/98	3/2/98
9804159	AIB001TB1	SW8260A	TB	4/20/98	4/21/98	4/29/98	4/29/98
9804159	AIB002EB1	SW8260A	EB	4/20/98	4/21/98	4/29/98	4/29/98
9804159	AIB003	SW8260A	N	4/20/98	4/21/98	4/29/98	4/29/98
9804159	AIB004FD1	SW8260A	FD	4/20/98	4/21/98	4/29/98	4/29/98
9804159	AIB006TB1	SW8260A	TB	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB007EB1	SW8260A	EB	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB008AB1	SW8260A	AB	4/21/98	4/22/98	4/29/98	4/28/98

SDG	Field ID	Method	QAQC Type	Sample Date	Received Date	Extract Date	Analysis Date
9804181	AIB009	SW8260A	N	4/21/98	4/22/98	4/29/98	4/29/98
9804181	AIB010	SW8260A	N	4/21/98	4/22/98	4/29/98	4/29/98
9804181	AIB011	SW8260A	N	4/21/98	4/22/98	4/29/98	4/29/98
9804181	AIB012	SW8260A	N	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB013	SW8260A	N	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB014	SW8260A	MS	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB014	SW8260A	N	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB014	SW8260A	SD	4/21/98	4/22/98	4/29/98	4/28/98
9804181	AIB014	SW8260A	N	4/21/98	4/22/98	4/29/98	4/29/98
9804181	AIB015FD1	SW8260A	FD	4/21/98	4/22/98	4/29/98	4/29/98
9804181	AIB016	SW8260A	N	4/21/98	4/22/98	4/29/98	4/28/98
9804186	AIB017TB1	SW8260A	TB	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB018EB1	E310.1	EB	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB018EB1	SW6010B	EB	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB018EB1	SW8260A	EB	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB018EB1	SW9056	EB	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AIB018EB1	SW9060	EB	4/22/98	4/23/98	4/29/98	5/12/98
9804186	AIB019	E310.1	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB019	SW6010B	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB019	SW6010B	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB019	SW8260A	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB019	SW8260A	N	4/22/98	4/23/98	5/4/98	5/5/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9804186	AIB019	SW9056	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AIB019	SW9056	N	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AIB019	SW9056	N	4/22/98	4/23/98	4/23/98	5/2/98
9804186	AIB019	SW9060	N	4/22/98	4/23/98	5/12/98	5/12/98
9804186	AIB020	E310.1	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB020	SW6010B	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB020	SW8260A	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB020	SW9056	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB020	SW9056	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB020	SW9060	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB022	E310.1	N	4/22/98	4/23/98	5/12/98	5/12/98
9804186	AIB022	SW6010B	MS	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB022	SW6010B	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB022	SW6010B	SD	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB022	SW8260A	MS	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB022	SW8260A	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB022	SW8260A	SD	4/22/98	4/23/98	4/30/98	4/30/98
9804186	AIB022	SW8260A	MS	4/30/98	4/23/98	4/23/98	4/23/98
9804186	AIB022	SW9056	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB022	SW9056	MS	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AIB022	SW9056	N	4/22/98	4/23/98	4/23/98	4/23/98

SDG	Field ID	Method	QAQC Type	Sample Date	Received Date	Extract Date	Analysis Date
9804186	AB022	SW9056	N	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AB022	SW9056	SD	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AB022	SW9056	SD	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AB022	SW9060	N	4/22/98	4/23/98	4/23/98	5/14/98
9804186	AB023FD1	E310 1	FD	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AB023FD1	SW6010B	FD	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AB023FD1	SW6010B	FD	4/22/98	4/23/98	4/29/98	5/14/98
9804186	AB023FD1	SW8260A	FD	4/22/98	4/23/98	5/14/98	5/15/98
9804186	AB023FD1	SW9056	FD	4/22/98	4/23/98	5/14/98	5/6/98
9804186	AB023FD1	SW9056	FD	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AB024	E310 1	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AB024	SW6010B	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AB024	SW6010B	N	4/22/98	4/23/98	4/23/98	5/12/98
9804186	AB024	SW8260A	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AB024	SW9056	N	4/22/98	4/23/98	4/29/98	4/30/98
9804186	AB024	SW9056	N	4/22/98	4/23/98	4/23/98	5/12/98
9804186	AB025	E310 1	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AB024	SW9060	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AB025	SW6010B	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AB025	SW8260A	N	4/22/98	4/23/98	4/30/98	4/30/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9804186	AIB025	SW9056	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AIB025	SW9056	N	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AIB025	SW9060	N	4/22/98	4/23/98	5/12/98	5/12/98
9804186	AIB026	E310.1	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB026	SW6010B	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB026	SW6010B	N	4/22/98	4/23/98	5/4/98	5/6/98
9804186	AIB026	SW8260A	N	4/22/98	4/23/98	4/30/98	4/30/98
9804186	AIB026	SW9056	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AIB026	SW9056	N	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AIB026	SW9056	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB026	SW9060	N	4/22/98	4/23/98	5/12/98	5/12/98
9804186	AIB027	E310.1	N	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB027	SW6010B	N	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB027	SW6010B	N	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AIB027	SW9056	N	4/22/98	4/23/98	5/4/98	5/6/98
9804186	AIB027	SW9056	N	4/22/98	4/23/98	5/12/98	5/12/98
9804186	AIB028FD1	E310.1	FD	4/22/98	4/23/98	4/29/98	4/29/98
9804186	AIB028FD1	SW6010B	FD	4/22/98	4/23/98	5/4/98	5/5/98
9804186	AIB028FD1	SW9056	FD	4/22/98	4/23/98	4/23/98	4/23/98
9804186	AIB028FD1	SW9056	FD	4/22/98	4/23/98	4/23/98	4/25/98
9804186	AIB028FD1	SW9060	FD	4/22/98	4/23/98	5/12/98	5/12/98

SDC	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9804186	LCSW	SW6010B	BS	5/4/98	5/4/98	5/4/98	5/5/98
9804186	LCSW	SW6010B	BS	5/6/98	5/6/98	5/4/98	5/6/98
9804186	LCSWD	SW6010B	BD	5/4/98	5/4/98	5/4/98	5/5/98
9804186	LCSWD	SW6010B	BD	5/6/98	5/6/98	5/4/98	5/6/98
9804214	AB021	E310 1	N	4/23/98	4/24/98	4/30/98	4/30/98
9804214	AB021	SW6010B	N	4/23/98	4/24/98	4/6/98	5/6/98
9804214	AB021	SW8260A	N	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AB021	SW9056	N	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AB021	sw9056	N	4/23/98	4/24/98	4/28/98	5/2/98
9804214	AB021	SW9060	N	4/23/98	4/24/98	5/12/98	5/12/98
9804214	AB029TB1	SW8260A	TB	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AB030AB1	SW8260A	AB	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AB031EB1	E310 1	EB	4/23/98	4/24/98	4/30/98	4/30/98
9804214	AB031EB1	SW6010B	EB	4/23/98	4/24/98	5/6/98	5/6/98
9804214	AB031EB1	SW8260A	EB	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AB031EB1	SW9056	EB	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AB031EB1	SW9060	EB	4/23/98	4/24/98	5/12/98	5/12/98
9804214	AB032	E3 10.1	N	4/23/98	4/24/98	4/30/98	4/30/98
9804214	AB032	SW6010B	MS	4/23/98	4/24/98	5/6/98	5/6/98
9804214	AB032	SW6010B	N	4/23/98	4/24/98	5/6/98	5/6/98
9804214	AB032	SW6010B	SD	4/23/98	4/24/98	5/6/98	5/6/98

SDG	Field ID	Method	QAQC Type	Sample Date	Receive Date	Extract Date	Analysis Date
9804214	AIB032	SW8260A	MS	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AIB032	SW8260A	N	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AIB032	SW8260A	SD	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AIB032	SW9056	MS	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AIB032	sw9056	MS	4/23/98	4/24/98	4/28/98	5/2/98
9804214	AIB032	SW9056	N	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AIB032	sw9056	N	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AIB032	SW9056	SD	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AIB032	sw9056	SD	4/23/98	4/24/98	4/28/98	5/2/98
9804214	AIB032	SW9060	MS	4/23/98	4/24/98	5/12/98	5/12/98
9804214	AIB032	SW9060	N	4/23/98	4/24/98	4/28/98	5/12/98
9804214	AIB032	SW9060	SD	4/23/98	4/24/98	5/12/98	5/12/98
9804214	AIB034	SW8260A	N	4/23/98	4/24/98	5/12/98	5/12/98
9804214	AIB036	E310.1	N	4/23/98	4/24/98	4/30/98	4/30/98
9804214	AIB036	SW6010B	N	4/23/98	4/24/98	5/2/98	5/2/98
9804214	AIB036	SW8260A	N	4/23/98	4/24/98	5/1/98	5/1/98
9804214	AIB036	SW9056	N	4/23/98	4/24/98	5/6/98	5/6/98
9804214	AIB036	sw9056	N	4/23/98	4/24/98	4/28/98	5/2/98
9804214	AIB036	SW9060	N	4/23/98	4/24/98	5/12/98	5/12/98
9804214	AIB037	E310.1	N	4/23/98	4/24/98	4/30/98	4/30/98
9804214	AIB037	SW6010B	N	4/23/98	4/24/98	5/6/98	5/6/98

SDG	Field ID	Method	QAQC Type	Sample Date	ReceiveDate	ExtractDate	AnalysisDate
9804214	AB037	SW8260A	N	4/23/98	4/24/98	5/2/98	5/2/98
9804214	AB037	SW9056	N	4/23/98	4/24/98	4/28/98	4/28/98
9804214	AB037	sw9056	N	4/23/98	4/24/98	4/28/98	5/2/98
9804214	AB037	SW9060	N	4/23/98	4/24/98	4/28/98	5/12/98
9804214	LCSW	SW6010B	BS	5/6/98	5/6/98	5/6/98	5/6/98
9804214	LCSWD	SW6010B	BD	5/6/98	5/6/98	5/6/98	5/6/98
9804220	AB033	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB035	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB038TB1	SW8260A	TB	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB039EB1	SW8260A	EB	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB040	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB041	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB042	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB043	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB044	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB045FD1	SW8260A	FD	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB046	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB047	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB048	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB049	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98
9804220	AB050	SW8260A	N	4/24/98	4/25/98	5/1/98	5/1/98

SDG	Field ID	Method	QAQC Type	Sample Date	ReceiveDate	ExtractDate	AnalysisDate
9804220	AIB051	SW8260A	N	4/24/98	4/25/98	5/3/98	5/3/98
9804237	AIB052TB 1	SW8260A	TB	4/25/98	4/27/98	5/8/98	5/8/98
9804237	AIB053EB 1	SW8260A	EB	4/25/98	4/27/98	5/8/98	5/8/98
9804237	AIB054	SW8260A	N	4/25/98	4/27/98	5/8/98	5/8/98
9804237	AIB054	SW8260A	N	4/25/98	5/11/98	5/11/98	5/11/98
9804237	AIB055	SW8260A	N	4/25/98	4/27/98	5/8/98	5/8/98
9804237	AIB055	SW8260A	N	4/25/98	5/11/98	5/11/98	5/11/98
9804237	AIB056	SW8260A	N	4/25/98	4/27/98	5/8/98	5/8/98
9804237	AIB056	SW8260A	N	4/25/98	5/11/98	5/11/98	5/11/98
9804237	AIB057	SW8260A	N	4/25/98	4/27/98	5/8/98	5/8/98
9804237	AIB057	SW8260A	N	4/25/98	5/11/98	5/11/98	5/11/98
C6554	AHA056EB 1	RSK-175	EB	12/16/97	12/17/97	12/19/97 1:55:00 PM	12/19/97 1:55:00 PM
C6554	AHA057	RSK-175	N	12/16/97	12/17/97	12/19/97 1:58:00 PM	12/19/97 1:58:00 PM
C6554	AHA058	RSK-175	N	12/16/97	12/17/97	12/19/97 1:59:00 PM	12/19/97 1:59:00 PM
C6554	AHA059	RSK-175	N	12/16/97	12/17/97	12/19/97 1:59:30 PM	12/19/97 1:59:30 PM
C6554	AHA062EB 1	RSK-175	EB	12/16/97	12/17/97	12/19/97 2:26:00 PM	12/19/97 2:26:00 PM
C6554	AHA063	RSK-175	N	12/16/97	12/17/97	12/19/97 2:17:00 PM	12/19/97 2:17:00 PM
C6554	AHA063dup	RSK-175	DUP	12/16/97	12/17/97	12/19/97 2:28:00 PM	12/19/97 2:28:00 PM
C6554	AHA063dup	RSK-175	LR	12/16/97	12/17/97	12/19/97 2:49:00 PM	12/19/97 2:49:00 PM
C6554	AHA064	RSK-175	N	12/16/97	12/17/97	12/19/97 1:00:00 PM	12/19/97 1:00:00 PM
C6554	AHA065	RSK-175	N	12/16/97	12/17/97	12/19/97 1:00:00 PM	12/19/97 1:00:00 PM

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SDG	Field ID	Method	QAQC	Type	Sample Date	Receive Date	Extract Date	Analysis Date
C6554	AHA066	RSK-175	N		12/16/97	12/17/97	12/19/97	19/97 11:00 PM
C6554	AHA067	RSK-175	N		12/16/97	12/17/97	12/19/97	19/97 1:22:00 PM
C6554	AHA068	RSK-175	N		12/16/97	12/17/97	12/19/97	19/97 1:33:00 PM
C6554	AHA069FD1	RSK-175	FD		12/16/97	12/17/97	12/19/97	19/97 1:44:00 PM
C6562	AHA071EB1	RSK-175	EB		12/17/97	12/18/97	12/19/97	19/97 3:31:00 PM
C6562	AHA072	RSK-175	N		12/17/97	12/18/97	12/19/97	19/97 3:42:00 PM
C6562	AHA073FD1	RSK-175	FD		12/17/97	12/18/97	12/19/97	19/97 3:53:00 PM
C6562	AHA075	RSK-175	N		12/17/97	12/18/97	12/19/97	19/97 4:04:00 PM
C6562	AHA075dup	RSK-175	DUP		12/17/97	12/18/97	12/19/97	19/97 4:19:00 PM
C6562	AHA075dup	RSK-175	LR		12/17/97	12/18/97	12/19/97	19/97 4:19:00 PM

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TAB

G-3 RESULTS AND VALIDATION REPORTS

TAB

G3.4 NORMAL/FIELD DUPLICATE RESULTS

Normal / Field Duplicate Results

	Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
SDG: 7154								
	<i>Method:</i> RSK-175							
METHANE	AIB022	454		AIB023FD1	503	10.24	30	WATER
METHANE	AIB027	0.39U		AIB028FD1	0.38U	2.6	30	WATER
SDG: 9711018								
	<i>Method:</i> SW8260A							
1,1,1,2-TETRACHLOROETHANE	AHA010	10U		AHA011FD1	10U	0	20	WATER
1,1,1-TRICHLOROETHANE	AHA010	16U		AHA011FD1	16U	0	20	WATER
1,1,2,2-TETRACHLOROETHANE	AHA010	8U		AHA011FD1	8U	0	20	WATER
1,1,2-TRICHLOROETHANE	AHA010	20U		AHA011FD1	20U	0	20	WATER
1,1-DICHLOROETHANE	AHA010	8U		AHA011FD1	8U	0	20	WATER
1,1-DICHLOROETHENE	AHA010	24U		AHA011FD1	24U	0	20	WATER
1,1-DICHLOROPROPENE	AHA010	20U		AHA011FD1	20U	0	20	WATER
1,2,3-TRICHLOROBENZENE	AHA010	6U		AHA011FD1	6U	0	20	WATER
1,2,3-TRICLOROPROPANE	AHA010	64U		AHA011FD1	64U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AHA010	8U		AHA011FD1	8U	0	20	WATER
1,2,4-TRIMETHYLBENZENE	AHA010	26U		AHA011FD1	26U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROPANE	AHA010	52U		AHA011FD1	52U	0	20	WATER
1,2-DIBROMOETHANE	AHA010	12U		AHA011FD1	12U	0	20	WATER
1,2-DICHLOROBENZENE	AHA010	6U		AHA011FD1	6U	0	20	WATER
1,2-DICHLOROETHANE	AHA010	12U		AHA011FD1	12U	0	20	WATER
1,2-DICHLOROPROpane	AHA010	8U		AHA011FD1	8U	0	20	WATER

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Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,3,5-TRIMETHYLBENZENE	AHA010	10U	AHA011FD1	10U	0	20	WATER
1,3-DICHLOROBENZENE	AHA010	24U	AHA011FD1	24U	0	20	WATER
1,3-DICHLOROPROPANE	AHA010	8U	AHA011FD1	8U	0	20	WATER
1,4-DICHLOROBENZENE	AHA010	6U	AHA011FD1	6U	0	20	WATER
1-CHLOROHEXANE	AHA010	10U	AHA011FD1	10U	0	20	WATER
2,2-DICHLOROPROPANE	AHA010	70U	AHA011FD1	70U	0	20	WATER
2-CHLOROTOLUENE	AHA010	8U	AHA011FD1	8U	0	20	WATER
4-CHLOROTOLUENE	AHA010	12U	AHA011FD1	12U	0	20	WATER
BENZENE	AHA010	8U	AHA011FD1	8U	0	20	WATER
BROMOBENZENE	AHA010	6U	AHA011FD1	6U	0	20	WATER
BROMOCHLOROMETHANE	AHA010	8U	AHA011FD1	8U	0	20	WATER
BROMODICHLOROMETHANE	AHA010	16U	AHA011FD1	16U	0	20	WATER
BROMOFORM	AHA010	24U	AHA011FD1	24U	0	20	WATER
BROMOMETHANE	AHA010	22U	AHA011FD1	22U	0	20	WATER
CARBON TETRACHLORIDE	AHA010	42U	AHA011FD1	42U	0	20	WATER
CHLOROBENZENE	AHA010	8U	AHA011FD1	8U	0	20	WATER
CHLOROETHANE	AHA010	20U	AHA011FD1	20U	0	20	WATER
CHLOROFORM	AHA010	9.8	AHA011FD1	14	35.29	20	WATER
CHLORMETHANE	AHA010	26U	AHA011FD1	26U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AHA010	89	AHA011FD1	92	3.31	20	WATER
CIS-1,3-DICHLOROPROPENE	AHA010	20U	AHA011FD1	20U	0	20	WATER
DIBROMOCHLOROMETHANE	AHA010	10U	AHA011FD1	10U	0	20	WATER
DIBROMOMETHANE	AHA010	48U	AHA011FD1	48U	0	20	WATER
DICHLORODIFLUOROMETHANE	AHA010	20U	AHA011FD1	20U	0	20	WATER
ETHYLBENZENE	AHA010	12U	AHA011FD1	12U	0	20	WATER
HEXACHLOROBUTADIENE	AHA010	22U	AHA011FD1	22U	0	20	WATER
ISOPROPYLBENZENE	AHA010	10U	AHA011FD1	10U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
M,P,XYLENE	AHA010	26U	AHA011FD1	26U	0	20	WATER
METHYLENE CHLORIDE	AHA010	24U	AHA011FD1	23U	4.26	20	WATER
N-BUTYLBENZENE	AHA010	22U	AHA011FD1	22U	0	20	WATER
N-PROPYLBENZENE	AHA010	8U	AHA011FD1	8U	0	20	WATER
NAPHTHALENE	AHA010	8U	AHA011FD1	8U	0	20	WATER
O-XYLENE	AHA010	22U	AHA011FD1	22U	0	20	WATER
P-ISOPROPYL TOLUENE	AHA010	24U	AHA011FD1	24U	0	20	WATER
SEC-BUTYLBENZENE	AHA010	26U	AHA011FD1	26U	0	20	WATER
STYRENE	AHA010	8U	AHA011FD1	8U	0	20	WATER
TERT-BUTYLBENZENE	AHA010	28U	AHA011FD1	28U	0	20	WATER
TETRACHLOROETHENE	AHA010	28U	AHA011FD1	28U	0	20	WATER
TOLUENE	AHA010	22U	AHA011FD1	22U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AHA010	12U	AHA011FD1	12U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AHA010	20U	AHA011FD1	20U	0	20	WATER
TRICHLOROETHENE	AHA010	320	AHA011FD1	290	9.84	20	WATER
TRICHLOROFLUOROMETHANE	AHA010	16U	AHA011FD1	16U	0	20	WATER
VINYL CHLORIDE	AHA010	22U	AHA011FD1	22U	0	20	WATER
SDG: 9711209							
<i>Method: SW8260A</i>							
1,1,1,2-TETRACHLOROETHANE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
1,1,1-TRICHLOROETHANE	AHA019	0.0045U	AHA020FD1	0.0046U	2.2	30	SOIL
1,1,2,2-TETRACHLOROETHANE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,1,2-TRICHLOROETHANE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
1,1-DICHLOROETHANE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,1-DICHLOROETHENE	AHA019	0.0068U	AHA020FD1	0.007U	2.9	30	SOIL

Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,1-DICHLOROPROPENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
1,2,3-TRICHLOROBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,2,3-TRICHLOROPROPANE	AHA019	0.023U	AHA020FD1	0.023U	0	30	SOIL
1,2,4-TRICHLOROBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,2,4-TRIMETHYLBENZENE	AHA019	0.0079U	AHA020FD1	0.0081U	2.5	30	SOIL
1,2-DIBROMO-3-CHLOROPROPANE	AHA019	0.011U	AHA020FD1	0.012U	8.7	30	SOIL
1,2-DIBROMOETHANE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
1,2-DICHLOROBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,2-DICHLOROETHANE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
1,2-DICHLOROPROPANE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,3,5-TRIMETHYLBENZENE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
1,3-DICHLOROBENZENE	AHA019	0.0068U	AHA020FD1	0.007U	2.9	30	SOIL
1,3-DICHLOROPROPANE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1,4-DICHLOROBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
1-CHLOROHEXANE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
2,2-DICHLOROPROPANE	AHA019	0.023U	AHA020FD1	0.023U	0	30	SOIL
2-CHLOROTOLUENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
4-CHLOROTOLUENE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
BENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
BROMOBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
BROMOCHLOROMETHANE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
BROMODICHLOROMETHANE	AHA019	0.0045U	AHA020FD1	0.0046U	2.2	30	SOIL
BROMOFORM	AHA019	0.0068U	AHA020FD1	0.007U	2.9	30	SOIL
BROMOMETHANE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
CARBON TETRACHLORIDE	AHA019	0.011U	AHA020FD1	0.012U	8.7	30	SOIL
CHLOROBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
CHLOROETHANE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
CHLOROFORM	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
CHLORMETHANE	AHA019	0.0079U	AHA020FD1	0.0081U	2.5	30	SOIL
CIS-1,2-DICHLOROETHENE	AHA019	0.0068U	AHA020FD1	0.007U	2.9	30	SOIL
CIS-1,3-DICHLOROPROPENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
DIBROMOCHLOROMETHANE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
DIBROMOMETHANE	AHA019	0.011U	AHA020FD1	0.012U	8.7	30	SOIL
DICHLORODIFLUOROMETHANE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
ETHYLBENZENE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
HEXACHLOROBUTADIENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
ISOPROPYLBENZENE	AHA019	0.009U	AHA020FD1	0.0093U	3.28	30	SOIL
M,P-XYLENE	AHA019	0.0079U	AHA020FD1	0.0081U	2.5	30	SOIL
METHYLENE CHLORIDE	AHA019	0.0074U	AHA020FD1	0.0044U	50.85	30	SOIL
N-BUTYLBENZENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
N-PROPYLBENZENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
NAPHTHALENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
O-XYLENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
P-ISOPROPYL TOLUENE	AHA019	0.0068U	AHA020FD1	0.007U	2.9	30	SOIL
SEC-BUTYL BENZENE	AHA019	0.0079U	AHA020FD1	0.0081U	2.5	30	SOIL
STYRENE	AHA019	0.0023U	AHA020FD1	0.0023U	0	30	SOIL
TERT-BUTYL BENZENE	AHA019	0.0079U	AHA020FD1	0.0081U	2.5	30	SOIL
TETRACHLOROETHENE	AHA019	0.0079U	AHA020FD1	0.0081U	2.5	30	SOIL
TOLUENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
TRANS-1,2-DICHLOROETHENE	AHA019	0.0034U	AHA020FD1	0.0035U	2.9	30	SOIL
TRANS-1,3-DICHLOROPROPENE	AHA019	0.0056U	AHA020FD1	0.0058U	3.51	30	SOIL
TRICHLOROETHENE	AHA019	0.011U	AHA020FD1	0.012U	8.7	30	SOIL
TRICHLOROFUOROMETHANE	AHA019	0.0045U	AHA020FD1	0.0046U	2.2	30	SOIL
VINYL CHLORIDE	AHA019	0.01U	AHA020FD1	0.01U	0	30	SOIL

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Normal / Field Duplicate Results

SDG:	Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
<i>Method: SW8260A</i>								
	1,1,1,2-TETRACHLOROETHANE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
	1,1,1-TRICHLOROETHANE	AHA039	0.005U	AHA040FD1	0.0043U	15.05	30	SOIL
	1,1,2,2-TETRACHLOROETHANE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,1,2-TRICHLOROETHANE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
	1,1-DICHLOROETHANE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,1-DICHLOROETHENE	AHA039	0.0075U	AHA040FD1	0.0064U	15.83	30	SOIL
	1,1-DICHLOROPROPENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
	1,2,3-TRICHLOROBENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,2,3-TRICHLOROPROPANE	AHA039	0.025U	AHA040FD1	0.021U	17.39	30	SOIL
	1,2,4-TRICHLOROBENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,2,4-TRIMETHYLBENZENE	AHA039	0.0087U	AHA040FD1	0.0075U	14.81	30	SOIL
	1,2-DIBROMO-3-CHLOROPROPANE	AHA039	0.012U	AHA040FD1	0.011U	8.7	30	SOIL
	1,2-DIBromoETHANE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
	1,2-DICHLOROBENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,2-DICHLOROETHANE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
	1,2-DICHLOROPROPANE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,3,5-TRIMETHYLBENZENE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
	1,3-DICHLOROBENZENE	AHA039	0.0075U	AHA040FD1	0.0064U	15.83	30	SOIL
	1,3-DICHLOROPROPANE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
	1,4-DICHLOROBENZENE	AHA039	0.0055U	AHA040FD1	0.0021U	17.39	30	SOIL
	1-CHLOROHEXANE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
	2,2-DICHLOROPROPANE	AHA039	0.025U	AHA040FD1	0.021U	17.39	30	SOIL
	2-CHLOROTOLUENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
4-CHLOROTOLUENE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
BENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
BROMOBENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
BROMOCHLOROMETHANE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
BROMODICHLOROMETHANE	AHA039	0.005U	AHA040FD1	0.0043U	15.05	30	SOIL
BROMOFORM	AHA039	0.0075U	AHA040FD1	0.0064U	15.83	30	SOIL
BROMOMETHANE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
CARBON TETRACHLORIDE	AHA039	0.012U	AHA040FD1	0.011U	8.7	30	SOIL
CHLOROBENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
CHLOROETHANE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
CHLOROFORM	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
CHLORMETHANE	AHA039	0.0087U	AHA040FD1	0.0075U	14.81	30	SOIL
CIS-1,2-DICHLOROETHENE	AHA039	0.0075U	AHA040FD1	0.0064U	15.83	30	SOIL
CIS-1,3-DICHLOROPROPENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
DIBROMOCHLOROMETHANE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
DIBROMOMETHANE	AHA039	0.012U	AHA040FD1	0.011U	8.7	30	SOIL
DICHLORODIFLUOROMETHANE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
ETHYLBENZENE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
HEXACHLOROBUTADIENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
ISOPROPYLBENZENE	AHA039	0.01U	AHA040FD1	0.0086U	15.05	30	SOIL
M,P,XYLENE	AHA039	0.0087U	AHA040FD1	0.0076U	14.81	30	SOIL
METHYLENE CHLORIDE	AHA039	0.0059U	AHA040FD1	0.0058U	1.71	30	SOIL
N-BUTYLBENZENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
N-PROPYLBENZENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
NAPHTHALENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
O-XYLENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
P-ISOPROPYL TOLUENE	AHA039	0.0075U	AHA040FD1	0.0064U	15.83	30	SOIL

Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
SEC-BUTYLBENZENE	AHA039	0.0087U	AHA040FD1	0.0075U	14.81	30	SOIL
STYRENE	AHA039	0.0025U	AHA040FD1	0.0021U	17.39	30	SOIL
TERT-BUTYLBENZENE	AHA039	0.0087U	AHA040FD1	0.0075U	14.81	30	SOIL
TETRACHLOROETHENE	AHA039	0.0087U	AHA040FD1	0.0075U	14.81	30	SOIL
TOLUENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
TRANS-1,2-DICHLOROETHENE	AHA039	0.0037U	AHA040FD1	0.0032U	14.49	30	SOIL
TRANS-1,3-DICHLOROPROPENE	AHA039	0.0062U	AHA040FD1	0.0054U	13.79	30	SOIL
TRICHLOROETHENE	AHA039	0.012U	AHA040FD1	0.011U	8.7	30	SOIL
TRICHLOROFLUOROMETHANE	AHA039	0.005U	AHA040FD1	0.0043U	15.05	30	SOIL
VINYL CHLORIDE	AHA039	0.011U	AHA040FD1	0.0096U	13.59	30	SOIL
SDG: 9712185							
<i>Method: SW6010A</i>							
ALUMINUM	AHA066	1050	AHA069FD1	852	20.82	15	WATER
CALCIUM	AHA066	170000	AHA069FD1	154000	9.88	15	WATER
IRON	AHA066	1370	AHA069FD1	1220	11.58	15	WATER
LEAD	AHA066	0.7U	AHA069FD1	0.7U	0	0	WATER
MAGNESIUM	AHA066	28200	AHA069FD1	28200	0	15	WATER
POTASSIUM	AHA066	2530F	AHA069FD1	2720F	7.24	15	WATER
<i>Method: SW8260A</i>							
1,1,1,2-TETRACHLOROETHANE	AHA066	0.5U	AHA069FD1	0.5U	0	20	WATER
1,1,1-TRICHLOROETHANE	AHA066	0.8U	AHA069FD1	0.8U	0	20	WATER
1,1,2,2-TETRACHLOROETHANE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
1,1,2-TRICHLOROETHANE	AHA066	1U	AHA069FD1	1U	0	20	WATER
1,1-DICHLOROETHANE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
1,1-DICHLOROETHENE	AHA066	1.2U	AHA069FD1	1.2U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,1-DICHLOROPROPENE	AHA066	1U	AHA069FD1	1U	0	20	WATER
1,2,3-TRICHLOROBENZENE	AHA066	0.3U	AHA069FD1	0.3U	0	20	WATER
1,2,3-TRICHLOROPROPANE	AHA066	3.2U	AHA069FD1	3.2U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AHA066	0.4U	AHA089FD1	0.4U	0	20	WATER
1,2,4-TRIMETHYLBENZENE	AHA066	1.3U	AHA069FD1	1.3U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROPANE	AHA066	2.6U	AHA069FD1	2.6U	0	20	WATER
1,2-DIBROMOETHANE	AHA066	0.6U	AHA069FD1	0.6U	0	20	WATER
1,2-DICHLOROBENZENE	AHA066	0.3U	AHA069FD1	0.3U	0	20	WATER
1,2-DICHLOROETHANE	AHA066	0.6U	AHA069FD1	0.6U	0	20	WATER
1,2-DICHLOROPROPANE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
1,2-DICHLOROTOLUENE	AHA066	0.5U	AHA069FD1	0.5U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AHA066	1.2U	AHA069FD1	1.2U	0	20	WATER
1,3-DICHLOROBENZENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
1,3-DICHLOROPROPANE	AHA066	3.5U	AHA069FD1	3.5U	0	20	WATER
1,4-DICHLOROBENZENE	AHA066	0.3U	AHA069FD1	0.3U	0	20	WATER
1-CHLOROHEXANE	AHA066	0.5U	AHA069FD1	0.5U	0	20	WATER
2,2-DICHLOROPROPANE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
2-CHLOROTOLUENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
4-CHLORTOLUENE	AHA066	0.6U	AHA069FD1	0.6U	0	20	WATER
BENZENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
BROMOBENZENE	AHA066	0.3U	AHA069FD1	0.3U	0	20	WATER
BROMOCHLOROMETHANE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
BROMODICHLOROMETHANE	AHA066	0.8U	AHA069FD1	0.8U	0	20	WATER
BROMOFORM	AHA066	1.2U	AHA069FD1	1.2U	0	20	WATER
BROMOMETHANE	AHA066	1.1U	AHA069FD1	1.1U	0	20	WATER
CARBON TETRACHLORIDE	AHA066	2.1U	AHA069FD1	2.1U	0	20	WATER
CHLOROBENZENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
CHLOROETHANE	AHA066	1U	AHA069FD1	1U	0	20	WATER

Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
CHLOROFORM	AHA066	0.3U	AHA069FD1	0.3U	0	20	WATER
CHLOROMETHANE	AHA066	1.3U	AHA069FD1	1.3U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AHA066	1.2U	AHA069FD1	1.2U	0	20	WATER
CIS-1,3-DICHLOROPROPENE	AHA066	1U	AHA069FD1	1U	0	20	WATER
DIBROMOCHLOROMETHANE	AHA066	0.5U	AHA069FD1	0.5U	0	20	WATER
DIBROMOMETHANE	AHA066	2.4U	AHA069FD1	2.4U	0	20	WATER
DICHLORODIFLUOROMETHANE	AHA066	1U	AHA069FD1	1U	0	20	WATER
ETHYL BENZENE	AHA066	0.6U	AHA069FD1	0.6U	0	20	WATER
HEXA CHLOROBUTADIENE	AHA066	1.1U	AHA069FD1	1.1U	0	20	WATER
ISOPROPYL BENZENE	AHA066	0.5U	AHA069FD1	0.5U	0	20	WATER
M,P-XYLENE	AHA066	1.3U	AHA069FD1	1.3U	0	20	WATER
METHYLENE CHLORIDE	AHA066	0.3U	AHA069FD1	0.3U	0	20	WATER
N-BUTYL BENZENE	AHA066	1.1U	AHA069FD1	1.1U	0	20	WATER
N-PROPYL BENZENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
NAPHTHALENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
O-XYLENE	AHA066	1.1U	AHA069FD1	1.1U	0	20	WATER
P-ISOPROPYL TOLUENE	AHA066	1.2U	AHA069FD1	1.2U	0	20	WATER
SEC-BUTYL BENZENE	AHA066	1.3U	AHA069FD1	1.3U	0	20	WATER
STYRENE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
TERT-BUTYL BENZENE	AHA066	1.4U	AHA069FD1	1.4U	0	20	WATER
TETRA CHLOROETHENE	AHA066	1.4U	AHA069FD1	1.4U	0	20	WATER
TOLUENE	AHA066	1.1U	AHA069FD1	1.1U	0	20	WATER
TRANS-1,2-DICHLORO PROPENE	AHA066	0.6U	AHA069FD1	0.6U	0	20	WATER
TRANS-1,3-DICHLOROETHENE	AHA066	1U	AHA069FD1	1U	0	20	WATER
TRICHLOROETHENE	AHA066	1U	AHA069FD1	1U	0	20	WATER
TRICHLOROFUOROMETHANE	AHA066	0.8U	AHA069FD1	0.8U	0	20	WATER
VINYL CHLORIDE	AHA066	1.1U	AHA069FD1	1.1U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
Method: SW9056							
BROMIDE	AHA066	1.42	AHA069FD1	1.3	8.82	20	WATER
FLUORIDE	AHA066	1.66	AHA069FD1	1.8	8.09	20	WATER
NITRATE	AHA066	0.1U	AHA069FD1	0.1U	0	20	WATER
NITRITE	AHA066	0.4U	AHA069FD1	0.4U	0	20	WATER
ORTHOPHOSPHATE	AHA066	0.1U	AHA069FD1	0.1U	0	20	WATER
Method: SW9060							
TOTAL ORGANIC CARBON	AHA066	10	AHA069FD1	11	9.52	0	WATER
SDG: 9712202							
Method: SW6010A							
ALUMINUM	AHA072	673	AHA073FD1	702	4.22	15	WATER
CALCIUM	AHA072	154000	AHA073FD1	154000	0	15	WATER
IRON	AHA072	2000	AHA073FD1	2130	6.3	15	WATER
LEAD	AHA072	31.2U	AHA073FD1	31.2U	0	0	WATER
MAGNESIUM	AHA072	5220	AHA073FD1	5200	0.38	15	WATER
POTASSIUM	AHA072	1130F	AHA073FD1	1120F	0.89	15	WATER
SODIUM	AHA072	162000	AHA073FD1	160000	1.24	15	WATER
Method: SW8260A							
1,1,1,2-TETRACHLOROETHANE	AHA072	13U	AHA073FD1	13U	0	20	WATER
1,1,1-TRICHLOROETHANE	AHA072	20U	AHA073FD1	20U	0	20	WATER
1,1,2,2-TETRACHLOROETHANE	AHA072	10U	AHA073FD1	10U	0	20	WATER
1,1,2-TRICHLOROETHANE	AHA072	25U	AHA073FD1	25U	0	20	WATER
1,1-DICHLOROETHANE	AHA072	10U	AHA073FD1	10U	0	20	WATER
1,1-DICHLOROETHENE	AHA072	30U	AHA073FD1	30U	0	20	WATER

10-6521598

Normal / Field Duplicate Results

652 590

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,1-DICHLOROPROPENE	AHA072	25U	AHA073FD1	25U	0	20	WATER
1,2,3-TRICHLOROBENZENE	AHA072	75U	AHA073FD1	75U	0	20	WATER
1,2,3-TRICHLOROPROPANE	AHA072	80U	AHA073FD1	80U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
1,2,4-TRIMETHYLBENZENE	AHA072	33U	AHA073FD1	33U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROPANE	AHA072	65U	AHA073FD1	65U	0	20	WATER
1,2-DIBROMOETHANE	AHA072	15U	AHA073FD1	15U	0	20	WATER
1,2-DICHLOROBENZENE	AHA072	7.5U	AHA073FD1	7.5U	0	20	WATER
1,2-DICHLOROETHANE	AHA072	15U	AHA073FD1	15U	0	20	WATER
1,2-DICHLOROPROPANE	AHA072	10U	AHA073FD1	10U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AHA072	13U	AHA073FD1	13U	0	20	WATER
1,3-DICHLOROBENZENE	AHA072	30U	AHA073FD1	30U	0	20	WATER
1,3-DICHLOROPROPANE	AHA072	10U	AHA073FD1	10U	0	20	WATER
1,4-DICHLOROBENZENE	AHA072	7.5U	AHA073FD1	7.5U	0	20	WATER
1-CHLOROHEXANE	AHA072	13U	AHA073FD1	13U	0	20	WATER
2,2-DICHLOROPROPANE	AHA072	88U	AHA073FD1	88U	0	20	WATER
2-CHLOROTOLUENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
4-CHLOROTOLUENE	AHA072	15U	AHA073FD1	15U	0	20	WATER
BENZENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
BROMOBENZENE	AHA072	7.5U	AHA073FD1	7.5U	0	20	WATER
BROMOCHLOROMETHANE	AHA072	10U	AHA073FD1	10U	0	20	WATER
BROMODICHLOROMETHANE	AHA072	20U	AHA073FD1	20U	0	20	WATER
BROMOFORM	AHA072	30U	AHA073FD1	30U	0	20	WATER
BROMOMETHANE	AHA072	28U	AHA073FD1	28U	0	20	WATER
CARBON TETRACHLORIDE	AHA072	53U	AHA073FD1	53U	0	20	WATER
CHLOROBENZENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
CHLOROETHANE	AHA072	25U	AHA073FD1	25U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dup.	Result	RPD Found	Acceptance Criteria %	Matrix
CHLOROFORM	AHA072	7.5U	AHA073FD1	7.5U	0	20	WATER
CHLORMETHANE	AHA072	33U	AHA073FD1	33U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AHA072	30U	AHA073FD1	30U	0	20	WATER
CIS-1,3-DICHLOROPROPENE	AHA072	25U	AHA073FD1	25U	0	20	WATER
DIBROMOCHLOROMETHANE	AHA072	13U	AHA073FD1	13U	0	20	WATER
DIBROMOMETHANE	AHA072	60U	AHA073FD1	60U	0	20	WATER
DICHLORODIFLUOROMETHANE	AHA072	25U	AHA073FD1	25U	0	20	WATER
ETHYLBENZENE	AHA072	15U	AHA073FD1	15U	0	20	WATER
HEXACHLOROBUTADIENE	AHA072	28U	AHA073FD1	28U	0	20	WATER
ISOPROPYLBENZENE	AHA072	13U	AHA073FD1	13U	0	20	WATER
M,P-XYLENE	AHA072	33U	AHA073FD1	33U	0	20	WATER
METHYLENE CHLORIDE	AHA072	10U	AHA073FD1	9U	10.53	20	WATER
N-BUTYLBENZENE	AHA072	28U	AHA073FD1	28U	0	20	WATER
N-PROPYLBENZENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
NAPHTHALENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
O-XYLENE	AHA072	28U	AHA073FD1	28U	0	20	WATER
P-ISOPROPYLTOLUENE	AHA072	30U	AHA073FD1	30U	0	20	WATER
SEC-BUTYLBENZENE	AHA072	33U	AHA073FD1	33U	0	20	WATER
STYRENE	AHA072	10U	AHA073FD1	10U	0	20	WATER
TERT-BUTYLBENZENE	AHA072	35U	AHA073FD1	35U	0	20	WATER
TETRACHLOROETHENE	AHA072	35U	AHA073FD1	35U	0	20	WATER
TOLUENE	AHA072	15U	AHA073FD1	15U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AHA072	25U	AHA073FD1	25U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AHA072	400	AHA073FD1	400	0	20	WATER
TRICHLOROETHENE	AHA072	20U	AHA073FD1	20U	0	20	WATER
TRICHLOROFUOROMETHANE	AHA072	28U	AHA073FD1	28U	0	20	WATER
VINYL CHLORIDE							

Normal / Field Duplicate Results

652 601

	Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
<i>Method: SW9056</i>								
BROMIDE	AHA072	1	AHA073FD1	1	0	20	WATER	
CHLORIDE	AHA072	210	AHA073FD1	210	0	20	WATER	
FLUORIDE	AHA072	0.5	AHA073FD1	0.6	18.18	20	WATER	
NITRATE	AHA072	7.6	AHA073FD1	7.8	2.6	20	WATER	
NITRITE	AHA072	0.4U	AHA073FD1	0.4U	0	20	WATER	
ORTHOPHOSPHATE	AHA072	0.1U	AHA073FD1	0.1U	0	20	WATER	
SULFATE	AHA072	87	AHA073FD1	90	3.39	20	WATER	
<i>Method: SW9060</i>								
TOTAL ORGANIC CARBON	AHA072	4.4	AHA073FD1	3.1	34.67	0	WATER	
<i>SDG: 9712227</i>								
<i>Method: SW8260A</i>								
1,1,1,2-TETRACHLOROETHANE	AHA095	10U	AHA096FD1	10U	0	20	WATER	
1,1,1-TRICHLOROETHANE	AHA095	16U	AHA096FD1	16U	0	20	WATER	
1,1,2,2-TETRACHLOROETHANE	AHA095	8U	AHA096FD1	8U	0	20	WATER	
1,1,2-TRICHLOROETHANE	AHA095	20U	AHA096FD1	20U	0	20	WATER	
1,1-DICHLOROETHANE	AHA095	8U	AHA096FD1	8U	0	20	WATER	
1,1-DICHLOROETHENE	AHA095	24U	AHA096FD1	24U	0	20	WATER	
1,1-DICHLOROPROPENE	AHA095	20U	AHA096FD1	20U	0	20	WATER	
1,2,3-TRICHLOROBENZENE	AHA095	6U	AHA096FD1	6U	0	20	WATER	
1,2,3-TRICHLOROPROPANE	AHA095	64U	AHA096FD1	64U	0	20	WATER	
1,2,4-TRICHLOROBENZENE	AHA095	8U	AHA096FD1	8U	0	20	WATER	
1,2,4-TRIMETHYLBENZENE	AHA095	26U	AHA096FD1	26U	0	20	WATER	
1,2-DIBROMO-3-CHLOROPROPANE	AHA095	52U	AHA096FD1	52U	0	20	WATER	
1,2-DIBROMOETHANE	AHA095	12U	AHA096FD1	12U	0	20	WATER	

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,2-DICHLOROBENZENE	AHA095	6U	AHA096FD1	6U	0	20	WATER
1,2-DICHLOROETHANE	AHA095	12U	AHA096FD1	12U	0	20	WATER
1,2-DICHLOROPROPANE	AHA095	8U	AHA096FD1	8U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AHA095	10U	AHA096FD1	10U	0	20	WATER
1,3-DICHLOROBENZENE	AHA095	24U	AHA096FD1	24U	0	20	WATER
1,3-DICHLOROPROPANE	AHA095	8U	AHA096FD1	8U	0	20	WATER
1,4-DICHLOROBENZENE	AHA095	6U	AHA096FD1	6U	0	20	WATER
1-CHLOROHEXANE	AHA095	10U	AHA096FD1	10U	0	20	WATER
2,2-DICHLOROPROPANE	AHA095	70U	AHA096FD1	70U	0	20	WATER
2-CHLOROTOLUENE	AHA095	8U	AHA096FD1	8U	0	20	WATER
4-CHLOROTOLUENE	AHA095	12U	AHA096FD1	12U	0	20	WATER
BENZENE	AHA095	8U	AHA096FD1	8U	0	20	WATER
BROMOBENZENE	AHA095	6U	AHA096FD1	6U	0	20	WATER
BROMOCHLOROMETHANE	AHA095	8U	AHA096FD1	8U	0	20	WATER
BROMODICHLOROMETHANE	AHA095	16U	AHA096FD1	16U	0	20	WATER
BROMOFORM	AHA095	24U	AHA096FD1	24U	0	20	WATER
BROMOMETHANE	AHA095	22U	AHA096FD1	22U	0	20	WATER
CARBON TETRACHLORIDE	AHA095	42U	AHA096FD1	42U	0	20	WATER
CHLOROBENZENE	AHA095	8U	AHA096FD1	8U	0	20	WATER
CHLOROETHANE	AHA095	20U	AHA096FD1	20U	0	20	WATER
CHLOROFORM	AHA095	6U	AHA096FD1	6U	0	20	WATER
CHLOROMETHANE	AHA095	26U	AHA096FD1	26U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AHA095	33	AHA096FD1	33	0	20	WATER
CIS-1,3-DICHLOROPROPENE	AHA095	20U	AHA096FD1	20U	0	20	WATER
DIBROMOCHLOROMETHANE	AHA095	10U	AHA096FD1	10U	0	20	WATER
DIBROMOMETHANE	AHA095	48U	AHA096FD1	48U	0	20	WATER
DICHLORODIFLUOROMETHANE	AHA095	20U	AHA096FD1	20U	0	20	WATER

Normal / Field Duplicate Results

652 603

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
ETHYLBENZENE	AHA095	12U	AHA096FD1	12U	0	20	WATER
HEXACHLOROBUTADIENE	AHA095	22U	AHA096FD1	22U	0	20	WATER
ISOPROPYLBENZENE	AHA095	10U	AHA096FD1	10U	0	20	WATER
M,P,XYLENE	AHA095	26U	AHA096FD1	26U	0	20	WATER
METHYLENE CHLORIDE	AHA095	18	AHA096FD1	19	5.41	20	WATER
N-BUTYLBENZENE	AHA095	22U	AHA096FD1	22U	0	20	WATER
N-PROPYLBENZENE	AHA095	8U	AHA096FD1	8U	0	20	WATER
NAPHTHALENE	AHA095	8U	AHA096FD1	8U	0	20	WATER
O-XYLENE	AHA095	22U	AHA096FD1	22U	0	20	WATER
P-ISOPROPYL TOLUENE	AHA095	24U	AHA096FD1	24U	0	20	WATER
SEC-BUTYLBENZENE	AHA095	26U	AHA096FD1	26U	0	20	WATER
STYRENE	AHA095	8U	AHA096FD1	8U	0	20	WATER
TERT-BUTYLBENZENE	AHA095	28U	AHA096FD1	28U	0	20	WATER
TE TRACHLOROETHENE	AHA095	28U	AHA096FD1	28U	0	20	WATER
TOLUENE	AHA095	22U	AHA096FD1	22U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AHA095	12U	AHA096FD1	12U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AHA095	20U	AHA096FD1	20U	0	20	WATER
TRICHLOROETHENE	AHA095	530	AHA096FD1	480	9.9	20	WATER
TRICHLOROFLUOROMETHANE	AHA095	16U	AHA096FD1	16U	0	20	WATER
VINYL CHLORIDE	AHA095	22U	AHA096FD1	22U	0	20	WATER
<i>SDG:</i>	9802049						
<i>Method:</i>	SW9060						
	TOTAL ORGANIC CARBON	AHA039	1060	AHA040FD1	63U	177.56	20
<i>SDG:</i>	9802130						
	SOIL						

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
Method: SVB60A							
1,1,1,2-TETRACHLOROETHANE	AIA005	0.5U	AIA006FD1	0.5U	0	20	WATER
1,1,1-TRICHLOROETHANE	AIA005	0.8U	AIA006FD1	0.8U	0	20	WATER
1,1,2,2-TETrACHLOROETHANE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
1,1,2-TRICHLOROETHANE	AIA005	1U	AIA006FD1	1U	0	20	WATER
1,1-DICHLOROETHANE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
1,1-DICHLOROETHENE	AIA005	1.2U	AIA006FD1	1.2U	0	20	WATER
1,1-DICHLOROPROPENE	AIA005	1U	AIA006FD1	1U	0	20	WATER
1,2,3-TRICHLOROBENZENE	AIA005	0.3U	AIA006FD1	0.3U	0	20	WATER
1,2,3-TRICHLOROPROPANE	AIA005	3.2U	AIA006FD1	3.2U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
1,2,4-TRIMETHYLBENZENE	AIA005	1.3U	AIA006FD1	1.3U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROpane	AIA005	2.6U	AIA006FD1	2.6U	0	20	WATER
1,2-DIBROMODETHANE	AIA005	0.6U	AIA006FD1	0.6U	0	20	WATER
1,2-DICHLOROBENZENE	AIA005	0.3U	AIA006FD1	0.3U	0	20	WATER
1,2-DICHLOROETHANE	AIA005	0.6U	AIA006FD1	0.6U	0	20	WATER
1,2-DICHLOROPROPANE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AIA005	0.5U	AIA006FD1	0.5U	0	20	WATER
1,3-DICHLOROBENZENE	AIA005	1.2U	AIA006FD1	1.2U	0	20	WATER
1,3-DICHLOROPROPANE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
1,4-DICHLOROBENZENE	AIA005	0.3U	AIA006FD1	0.3U	0	20	WATER
1-CHLOROHExANE	AIA005	0.5U	AIA006FD1	0.5U	0	20	WATER
2,2-DICHLOROPROPANE	AIA005	3.5U	AIA006FD1	3.5U	0	20	WATER
2-CHLOROTOLUENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
4-CHLOROTOLUENE	AIA005	0.6U	AIA006FD1	0.6U	0	20	WATER
BENZENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
BROMOBENZENE	AIA005	0.3U	AIA006FD1	0.3U	0	20	WATER
BROMOCHLOROMETHANE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
BROMODICHLOROMETHANE	AIA005	0.8U	AIA006FD1	0.8U	0	20	WATER
BROMOFORM	AIA005	1.2U	AIA006FD1	1.2U	0	20	WATER
BROMOMETHANE	AIA005	1.1U	AIA006FD1	1.1U	0	20	WATER
CARBON TETRACHLORIDE	AIA005	2.1U	AIA006FD1	2.1U	0	20	WATER
CHLOROBENZENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
CHLOROETHANE	AIA005	1U	AIA006FD1	1U	0	20	WATER
CHLOROFORM	AIA005	0.3U	AIA006FD1	0.3U	0	20	WATER
CHLOROMETHANE	AIA005	13U	AIA006FD1	13U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AIA005	1.2U	AIA006FD1	1.2U	0	20	WATER
CIS-1,3-DICHLOROPROPENE	AIA005	1U	AIA006FD1	1U	0	20	WATER
DIBROMOCHLOROMETHANE	AIA005	0.5U	AIA006FD1	0.5U	0	20	WATER
DIBROMOMETHANE	AIA005	2.4U	AIA006FD1	2.4U	0	20	WATER
DICHLORODIFLUOROMETHANE	AIA005	1U	AIA006FD1	1U	0	20	WATER
ETHYLBENZENE	AIA005	0.6U	AIA006FD1	0.6U	0	20	WATER
HEXACHLOROBUTADIENE	AIA005	1.1U	AIA006FD1	1.1U	0	20	WATER
ISOPROPYLBENZENE	AIA005	0.5U	AIA006FD1	0.5U	0	20	WATER
m,p-xylene	AIA005	13U	AIA006FD1	1.3U	0	20	WATER
METHYLENE CHLORIDE	AIA005	0.74U	AIA006FD1	0.97U	26.9	20	WATER
N-BUTYLBENZENE	AIA005	1.1U	AIA006FD1	1.1U	0	20	WATER
N-PROPYLBENZENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
NAPHTHALENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER
O-XYLENE	AIA005	1.1U	AIA006FD1	1.1U	0	20	WATER
P-ISOPROPYL TOLUENE	AIA005	1.2U	AIA006FD1	1.2U	0	20	WATER
SEC-BUTYL BENZENE	AIA005	1.3U	AIA006FD1	1.3U	0	20	WATER
STYRENE	AIA005	0.4U	AIA006FD1	0.4U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
TERT-BUTYL BENZENE	AIA005	1.4U	AIA006FD1	1.4U	0	20	WATER
TETRACHLOROETHENE	AIA005	1.4U	AIA006FD1	1.4U	0	20	WATER
TOLUENE	AIA005	1.1U	AIA006FD1	1.1U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AIA005	0.6U	AIA006FD1	0.6U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AIA005	1U	AIA006FD1	1U	0	20	WATER
TRICHLOROETHENE	AIA005	1U	AIA006FD1	1U	0	20	WATER
TRICHLOROFLUOROMETHANE	AIA005	0.8U	AIA006FD1	0.8U	0	20	WATER
VINYL CHLORIDE	AIA005	1.1U	AIA006FD1	1.1U	0	20	WATER
 SDG: 9802168							
<i>Method: SW8260A</i>							
CIS-1,2-DICHLOROETHENE	AIA031	84	AIA032FD1	75	11.32	20	WATER
TRANS-1,2-DICHLOROETHENE	AIA031	130	AIA032FD1	120	8	20	WATER
 SDG: 9802180							
<i>Method: SW8260A</i>							
1,1,1,2-TETRACHLOROETHANE	AIA044	2.5U	AIA045FD1	2.5U	0	20	WATER
1,1,1-TRICHLOROETHANE	AIA044	4U	AIA045FD1	4U	0	20	WATER
1,1,2,2-TETRACHLOROETHANE	AIA044	2U	AIA045FD1	2U	0	20	WATER
1,1,2-TRICHLOROETHANE	AIA044	5U	AIA045FD1	5U	0	20	WATER
1,1-DICHLOROETHANE	AIA044	2U	AIA045FD1	2U	0	20	WATER
1,1-DICHLOROETHENE	AIA044	6U	AIA045FD1	6U	0	20	WATER
1,1-DICHLOROPROPENE	AIA044	5U	AIA045FD1	5U	0	20	WATER
1,2,3-TRICHLOROBENZENE	AIA044	1.5U	AIA045FD1	1.5U	0	20	WATER
1,2,3-TRICHLOROPROPANE	AIA044	16U	AIA045FD1	16U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AIA044	2U	AIA045FD1	2U	0	20	WATER

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Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,2,4-TRIMETHYLBENZENE	AIA044	6.5U	AIA045FD1	6.5U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROPANE	AIA044	13U	AIA045FD1	13U	0	20	WATER
1,2-DIBROMOETHANE	AIA044	3U	AIA045FD1	3U	0	20	WATER
1,2-DICHLOROBENZENE	AIA044	1.5U	AIA045FD1	1.5U	0	20	WATER
1,2-DICHLOROETHANE	AIA044	3U	AIA045FD1	3U	0	20	WATER
1,2-DICHLOROPROPANE	AIA044	2U	AIA045FD1	2U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AIA044	2.5U	AIA045FD1	2.5U	0	20	WATER
1,3-DICHLOROBENZENE	AIA044	6U	AIA045FD1	6U	0	20	WATER
1,3-DICHLOROPROPANE	AIA044	2U	AIA045FD1	2U	0	20	WATER
1,4-DICHLOROBENZENE	AIA044	1.5U	AIA045FD1	1.5U	0	20	WATER
1-CHLOROHEXANE	AIA044	2.5U	AIA045FD1	2.5U	0	20	WATER
2,2-DICHLOROPROPANE	AIA044	18U	AIA045FD1	18U	0	20	WATER
2-CHLOROTOLUENE	AIA044	2U	AIA045FD1	2U	0	20	WATER
4-CHLOROTOLUENE	AIA044	3U	AIA045FD1	3U	0	20	WATER
BENZENE	AIA044	2U	AIA045FD1	2U	0	20	WATER
BROMOBENZENE	AIA044	1.5U	AIA045FD1	1.5U	0	20	WATER
BROMOCHLORMETHANE	AIA044	2U	AIA045FD1	2U	0	20	WATER
BROMODICHLORMETHANE	AIA044	4U	AIA045FD1	4U	0	20	WATER
BROMOFORM	AIA044	6U	AIA045FD1	6U	0	20	WATER
BROMOMETHANE	AIA044	5.5U	AIA045FD1	5.5U	0	20	WATER
CARBON TETRACHLORIDE	AIA044	11U	AIA045FD1	11U	0	20	WATER
CHLOROBENZENE	AIA044	2U	AIA045FD1	2U	0	20	WATER
CHLOROETHANE	AIA044	5U	AIA045FD1	5U	0	20	WATER
CHLOROFORM	AIA044	1.5U	AIA045FD1	1.5U	0	20	WATER
CHLOROMETHANE	AIA044	6.5U	AIA045FD1	6.5U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AIA044	4.4F	AIA045FD1	4.9F	10.75	20	WATER
CIS-1,3-DICHLOROPROPENE	AIA044	5U	AIA045FD1	5U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
DIBROMOCHLOROMETHANE	AIA044	2.5U	AIA045FD1	2.5U	0	20	WATER
DIBROMOMETHANE	AIA044	12U	AIA045FD1	12U	0	20	WATER
DICHLORODIFLUOROMETHANE	AIA044	5U	AIA045FD1	5U	0	20	WATER
ETHYLBENZENE	AIA044	3U	AIA045FD1	3U	0	20	WATER
HEXACHLOROBUTADIENE	AIA044	5.5U	AIA045FD1	5.5U	0	20	WATER
ISOPROPYLBENZENE	AIA044	2.5U	AIA045FD1	2.5U	0	20	WATER
ISOPROPYLBENZENE	AIA044	6.5U	AIA045FD1	6.5U	0	20	WATER
m,p-Xylene	AIA044	3.1U	AIA045FD1	3U	3.28	20	WATER
METHYLENE CHLORIDE	AIA044	5.5U	AIA045FD1	5.5U	0	20	WATER
N-BUTYLBENZENE	AIA044	2U	AIA045FD1	2U	0	20	WATER
N-PROPYLBENZENE	AIA044	2U	AIA045FD1	2U	0	20	WATER
NAPHTHALENE	AIA044	5.5U	AIA045FD1	5.5U	0	20	WATER
O-XYLENE	AIA044	6U	AIA045FD1	6U	0	20	WATER
P-ISOPROPYL TOLUENE	AIA044	6.5U	AIA045FD1	6.5U	0	20	WATER
SEC-BUTYLBENZENE	AIA044	2U	AIA045FD1	2U	0	20	WATER
STYRENE	AIA044	7U	AIA045FD1	7U	0	20	WATER
TERT-BUTYLBENZENE	AIA044	8.5	AIA045FD1	9.3	8.99	20	WATER
TETRACHLOROETHENE	AIA044	5.5U	AIA045FD1	5.5U	0	20	WATER
TOLUENE	AIA044	3U	AIA045FD1	3U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AIA044	5U	AIA045FD1	5U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AIA044	140	AIA045FD1	160	13.33	20	WATER
TRICHLOROETHENE	AIA044	4U	AIA045FD1	4U	0	20	WATER
TRICHLOROFUOROMETHANE	AIA044	5.5U	AIA045FD1	5.5U	0	20	WATER
VINYL CHLORIDE	AIA044						

SDG: 9804159

Method: SW8260A

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Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dup.	Result	RPD Found	Acceptance Criteria %	Matrix
1,1,1,2-TETRACHLOROETHANE	AIB003	0.5U	AIB004FD1	0.5U	0	20	WATER
1,1,1-TRICHLOROETHANE	AIB003	0.8U	AIB004FD1	0.8U	0	20	WATER
1,1,2,2-TETRACHLOROETHANE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
1,1,2-TRICHLOROETHANE	AIB003	1U	AIB004FD1	1U	0	20	WATER
1,1-DICHLOROETHANE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
1,1-DICHLOROPROPENE	AIB003	1.2U	AIB004FD1	1.2U	0	20	WATER
1,1-DICHLOROBENZENE	AIB003	1U	AIB004FD1	1U	0	20	WATER
1,2,3-TRICHLOROBENZENE	AIB003	0.3U	AIB004FD1	0.3U	0	20	WATER
1,2,3-TRICHLOROPROPANE	AIB003	3.2U	AIB004FD1	3.2U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
1,2,4-TRIMETHYLBENZENE	AIB003	1.3U	AIB004FD1	1.3U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROPANE	AIB003	2.6U	AIB004FD1	2.6U	0	20	WATER
1,2-DIBROETHANE	AIB003	0.6U	AIB004FD1	0.6U	0	20	WATER
1,2-DICHLOROBENZENE	AIB003	0.3U	AIB004FD1	0.3U	0	20	WATER
1,2-DICHLOROETHANE	AIB003	0.6U	AIB004FD1	0.6U	0	20	WATER
1,2-DICHLOROPROPANE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AIB003	0.5U	AIB004FD1	0.5U	0	20	WATER
1,3-DICHLOROBENZENE	AIB003	1.2U	AIB004FD1	1.2U	0	20	WATER
1,3-DICHLOROPROPANE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
1,4-DICHLOROBENZENE	AIB003	0.3U	AIB004FD1	0.3U	0	20	WATER
1-CHLOROHEXANE	AIB003	0.5U	AIB004FD1	0.5U	0	20	WATER
2,2-DICHLOROPROPANE	AIB003	3.5U	AIB004FD1	3.5U	0	20	WATER
2-CHLOROTOLUENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
4-CHLOROTOLUENE	AIB003	0.6U	AIB004FD1	0.6U	0	20	WATER
BENZENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
BROMOBENZENE	AIB003	0.3U	AIB004FD1	0.3U	0	20	WATER
BROMOCHLOROMETHANE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
BROMODICHLOROMETHANE	AIB003	0.8U	AIB004FD1	0.8U	0	20	WATER
BROMOFORM	AIB003	1.2U	AIB004FD1	1.2U	0	20	WATER
BROMOMETHANE	AIB003	1.1U	AIB004FD1	1.1U	0	20	WATER
CARBON TETRACHLORIDE	AIB003	2.1U	AIB004FD1	2.1U	0	20	WATER
CHLOROBENZENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
CHLOROETHANE	AIB003	1U	AIB004FD1	1U	0	20	WATER
CHLOROFORM	AIB003	0.3U	AIB004FD1	0.3U	0	20	WATER
CHLOROMETHANE	AIB003	1.3U	AIB004FD1	1.3U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AIB003	1.2U	AIB004FD1	1.2U	0	20	WATER
CIS-1,3-DICHLOROPROPENE	AIB003	1U	AIB004FD1	1U	0	20	WATER
DIBROMOCHLOROMETHANE	AIB003	0.5U	AIB004FD1	0.5U	0	20	WATER
DIBROMOMETHANE	AIB003	2.4U	AIB004FD1	2.4U	0	20	WATER
DICHLORODIFLUOROMETHANE	AIB003	1U	AIB004FD1	1U	0	20	WATER
ETHYL BENZENE	AIB003	0.6U	AIB004FD1	0.6U	0	20	WATER
HEXACHLOROBUTADIENE	AIB003	1.1U	AIB004FD1	1.1U	0	20	WATER
ISOPROPYLBENZENE	AIB003	0.5U	AIB004FD1	0.5U	0	20	WATER
m,p-xylene	AIB003	1.3U	AIB004FD1	1.3U	0	20	WATER
METHYLENE CHLORIDE	AIB003	0.53U	AIB004FD1	0.44U	18.56	20	WATER
N-BUTYL BENZENE	AIB003	1.1U	AIB004FD1	1.1U	0	20	WATER
N-PROPYLBENZENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
NAPHTHALENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
O-XYLENE	AIB003	1.1U	AIB004FD1	1.1U	0	20	WATER
P-ISOPROPYL TOLUENE	AIB003	1.2U	AIB004FD1	1.2U	0	20	WATER
SEC-BUTYL BENZENE	AIB003	1.3U	AIB004FD1	1.3U	0	20	WATER
STYRENE	AIB003	0.4U	AIB004FD1	0.4U	0	20	WATER
TERT-BUTYL BENZENE	AIB003	1.4U	AIB004FD1	1.4U	0	20	WATER
TETRA CHLOROETHENE	AIB003	1.4U	AIB004FD1	1.4U	0	20	WATER

Normal / Field Duplicate Results

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Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
TOLUENE	AIB003	1.1U	AIB004FD1	1.1U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AIB003	0.6U	AIB004FD1	0.6U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AIB003	1U	AIB004FD1	1U	0	20	WATER
TRICHLOROETHENE	AIB003	1U	AIB004FD1	1U	0	20	WATER
TRICHLOROFLUOROMETHANE	AIB003	0.8U	AIB004FD1	0.8U	0	20	WATER
VINYL CHLORIDE	AIB003	1.1U	AIB004FD1	1.1U	0	20	WATER
SDG: 9804181							
<i>Method:</i> SW8260A							
TRICHLOROETHENE	AIB014	450	AIB015FD1	420	6.9	20	WATER
SDG: 9804186							
<i>Method:</i> SW8260A							
CIS-1,2-DICHLOROETHENE	AIB022	180	AIB023FD1	180	0	20	WATER
TRICHLOROETHENE	AIB022	580	AIB023FD1	650	11.38	20	WATER
<i>Method:</i> SW9056							
BROMIDE	AIB022	1.4	AIB023FD1	1.2	15.38	20	WATER
BROMIDE	AIB022	93	AIB023FD1	1.2	194.9	20	WATER
BROMIDE	AIB022	95	AIB023FD1	1.2	195.01	20	WATER
CHLORIDE	AIB022	95	AIB023FD1	121	24.07	20	WATER
CHLORIDE	AIB022	122	AIB023FD1	121	0.82	20	WATER
CHLORIDE	AIB022	94	AIB023FD1	121	25.12	20	WATER
FLUORIDE	AIB022	95	AIB023FD1	0.41	198.28	20	WATER
FLUORIDE	AIB022	96	AIB023FD1	0.41	198.3	20	WATER
FLUORIDE	AIB022	0.28	AIB023FD1	0.41	37.68	20	WATER
NITRATE	AIB022	4.9	AIB023FD1	4.7	4.17	20	WATER

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
NITRATE	AIB022	91	AIB023FD1	4.7	180.36	20	WATER
NITRATE	AIB022	93	AIB023FD1	4.7	180.76	20	WATER
NITRITE	AIB022	108	AIB023FD1	0.4U	198.52	20	WATER
NITRITE	AIB022	109	AIB023FD1	0.4U	198.54	20	WATER
NITRITE	AIB022	0.4U	AIB023FD1	0.4U	0	20	WATER
ORTHOPHOSPHATE	AIB022	0.1U	AIB023FD1	0.1U	0	20	WATER
ORTHOPHOSPHATE	AIB022	100	AIB023FD1	0.1U	199.6	20	WATER
ORTHOPHOSPHATE	AIB022	105	AIB023FD1	0.1U	199.62	20	WATER
SULFATE	AIB022	60	AIB023FD1	61	1.65	20	WATER
SULFATE	AIB022	95	AIB023FD1	61	43.59	20	WATER
BROMIDE	AIB027	0.72	AIB028FD1	0.71	1.4	20	WATER
CHLORIDE	AIB027	32	AIB028FD1	32	0	20	WATER
FLUORIDE	AIB027	0.41	AIB028FD1	0.41	0	20	WATER
NITRATE	AIB027	1.8	AIB028FD1	1.8	0	20	WATER
NITRATE	AIB027	0.4U	AIB028FD1	0.4U	0	20	WATER
ORTHOPHOSPHATE	AIB027	0.1U	AIB028FD1	0.1U	0	20	WATER
SULFATE	AIB027	40	AIB028FD1	41	2.47	20	WATER
<i>Method:</i> SW9060							
TOTAL ORGANIC CARBON	AIB022	4	AIB023FD1	3	28.57	0	WATER
TOTAL ORGANIC CARBON	AIB027	1	AIB028FD1	2	66.67	0	WATER
<i>SDG:</i> 9B04220							
<i>Method:</i> SW8260A							
1,1,1,2-TETRACHLOROETHANE	AIB044	0.5U	AIB045FD1	0.5U	0	20	WATER
1,1,1-TRICHLOROETHANE	AIB044	0.8U	AIB045FD1	0.8U	0	20	WATER
1,1,2,2-TETRACHLOROETHANE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER

Normal / Field Duplicate Results

652.613

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
1,1,2-TRICHLOROETHANE	AIB044	1U	AIB045FD1	1U	0	20	WATER
1,1-DICHLOROETHANE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
1,1-DICHLOROETHENE	AIB044	12U	AIB045FD1	1.2U	0	20	WATER
1,1-DICHLOROPROPENE	AIB044	1U	AIB045FD1	1U	0	20	WATER
1,1,2,3-TRICHLOROBENZENE	AIB044	0.3U	AIB045FD1	0.3U	0	20	WATER
1,2,3-TRICHLOROPROPANE	AIB044	32U	AIB045FD1	3.2U	0	20	WATER
1,2,4-TRICHLOROBENZENE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
1,2,4-TRIMETHYLBENZENE	AIB044	1.3U	AIB045FD1	1.3U	0	20	WATER
1,2-DIBROMO-3-CHLOROPROPANE	AIB044	2.6U	AIB045FD1	2.6U	0	20	WATER
1,2-DIBROMOETHANE	AIB044	0.6U	AIB045FD1	0.6U	0	20	WATER
1,2-DICHLOROBENZENE	AIB044	0.3U	AIB045FD1	0.3U	0	20	WATER
1,2-DICHLOROETHANE	AIB044	0.6U	AIB045FD1	0.6U	0	20	WATER
1,2-DICHLOROPROPANE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
1,3,5-TRIMETHYLBENZENE	AIB044	0.5U	AIB045FD1	0.5U	0	20	WATER
1,3-DICHLOROBENZENE	AIB044	1.2U	AIB045FD1	1.2U	0	20	WATER
1,3-DICHLOROETHANE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
1,3-DICHLOROPROPANE	AIB044	0.3U	AIB045FD1	0.3U	0	20	WATER
1,4-DICHLOROBENZENE	AIB044	0.5R,U	AIB045FD1	0.5R,U	0	20	WATER
1-CHLOROHEXANE	AIB044	3.5U	AIB045FD1	3.5U	0	20	WATER
2,2-DICHLOROPROPANE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
2-CHLOROTOLUENE	AIB044	0.6U	AIB045FD1	0.6U	0	20	WATER
4-CHLOROTOLUENE	AIB044	0.4R,U	AIB045FD1	0.4R,U	0	20	WATER
BENZENE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
BROMOBENZENE	AIB044	0.3U	AIB045FD1	0.3U	0	20	WATER
BROMOCHLOROMETHANE	AIB044	0.8U	AIB045FD1	0.8U	0	20	WATER
BROMODICHLOROMETHANE	AIB044	1.2U	AIB045FD1	1.2U	0	20	WATER
BROMOFORM	AIB044	1.1R,U	AIB045FD1	1.1R,U	0	20	WATER
BROMOMETHANE	AIB044						

Normal / Field Duplicate Results

Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
CARBON TETRACHLORIDE	AIB044	2.1U	AIB045FD1	2.1U	0	20	WATER
CHLOROBENZENE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
CHLOROETHANE	AIB044	1U	AIB045FD1	1U	0	20	WATER
CHLOROFORM	AIB044	0.3U	AIB045FD1	0.3U	0	20	WATER
CHLOROMETHANE	AIB044	1.3R,U	AIB045FD1	1.3R,U	0	20	WATER
CIS-1,2-DICHLOROETHENE	AIB044	1.2U	AIB045FD1	1.2U	0	20	WATER
CIS-1,3-DICHLOROPROPENE	AIB044	1U	AIB045FD1	1U	0	20	WATER
DIBROMOCHLOROMETHANE	AIB044	0.5U	AIB045FD1	0.5U	0	20	WATER
DIBROMOMETHANE	AIB044	2.4U	AIB045FD1	2.4U	0	20	WATER
DICHLORODIFLUOROMETHANE	AIB044	1R,U	AIB045FD1	1R,U	0	20	WATER
ETHYL BENZENE	AIB044	0.6U	AIB045FD1	0.6U	0	20	WATER
HEXA-CHLOROBUTADIENE	AIB044	1.1U	AIB045FD1	1.1U	0	20	WATER
ISOPROPYL BENZENE	AIB044	0.5U	AIB045FD1	0.5U	0	20	WATER
m,p-Xylene	AIB044	1.3U	AIB045FD1	1.3U	0	20	WATER
METHYLENE CHLORIDE	AIB044	0.3R,U	AIB045FD1	0.3R,U	0	20	WATER
N-BUTYL BENZENE	AIB044	1.1U	AIB045FD1	1.1U	0	20	WATER
N-PROPYL BENZENE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
NAPHTHALENE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
O-XYLENE	AIB044	1.1U	AIB045FD1	1.1U	0	20	WATER
P-ISOPROPYL TOLUENE	AIB044	1.2U	AIB045FD1	1.2U	0	20	WATER
SEC-BUTYL BENZENE	AIB044	1.3U	AIB045FD1	1.3U	0	20	WATER
STYRENE	AIB044	0.4U	AIB045FD1	0.4U	0	20	WATER
TERT-BUTYL BENZENE	AIB044	1.4U	AIB045FD1	1.4U	0	20	WATER
TETRA-CHLOROETHENE	AIB044	1.4U	AIB045FD1	1.4U	0	20	WATER
TOLUENE	AIB044	1.1U	AIB045FD1	1.1U	0	20	WATER
TRANS-1,2-DICHLOROETHENE	AIB044	0.6U	AIB045FD1	0.6U	0	20	WATER
TRANS-1,3-DICHLOROPROPENE	AIB044	1U	AIB045FD1	1U	0	20	WATER

Normal / Field Duplicate Results

	Analyte	Normal Sample	Result	Field Dupe	Result	RPD Found	Acceptance Criteria %	Matrix
	TRICHLOROETHENE	AB044	4.7	AIB045FD1	5	6.19	20	WATER
	TRICHLOROFLUOROMETHANE	AB044	0.8U	AIB045FD1	0.8U	0	20	WATER
	VINYL CHLORIDE	AB044	1.1U	AIB045FD1	1.1U	0	20	WATER
SDG:	C6554							
	<i>Method: RSK-175</i>							
	METHANE	AHA066	11.065964208	AHA069FD1	13.4881445	19.73	30	Water
SDG:	C6562							
	<i>Method: RSK-175</i>							
	METHANE	AHA072	0.3432841826	AHA073FD1	0.34310131	0.05	30	Water

TAB

G-32 COMPLETENESS SUMMARY

Completeness Summary

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-Flagged Values	No. of Rejected Values	Percent Completeness
E3101	WATER	TOTAL ALKALINITY	13	13	3	3	0	100.0
E3101	WATER	TOTAL ALKALINITY AS CACO ₃	13	13	0	0	0	100.0
RSK-175	WATER	ETHANE	13	4	9	0	0	100.0
RSK-175	WATER	ETHENE	13	0	13	0	0	100.0
RSK-175	WATER	METHANE	13	8	5	0	0	100.0
RSK-175	WATER	METHANE	13	7	6	0	0	100.0
SW6010A	WATER	ALUMINUM	13	11	2	3	0	100.0
SW6010A	WATER	CALCIUM	13	13	0	0	0	100.0
SW6010A	WATER	IRON	13	13	0	0	0	100.0
SW6010A	WATER	LEAD	13	1	12	0	0	100.0
SW6010A	WATER	MAGNESIUM	13	13	0	0	0	100.0
SW6010A	WATER	POTASSIUM	13	13	0	0	0	100.0
SW6010A	WATER	SODIUM	13	13	0	0	0	100.0
SW6010B	WATER	ALUMINUM	13	9	4	4	0	100.0
SW6010B	WATER	CALCIUM	13	13	0	0	0	100.0
SW6010B	WATER	IRON	13	12	1	8	0	100.0
SW6010B	WATER	LEAD	13	13	0	0	0	100.0

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-flagged Values	No. of J-rejected Values	Percent Completeness
SW6010B	WATER	MAGNESIUM	13	13				100.0
SW6010B	WATER	POTASSIUM	13	13				100.0
SW6010B	WATER	SODIUM	13	13				100.0
SW8260A	SOIL	1,1,1,2-TETRACHLOROETHANE	21		21			100.0
SW8260A	SOIL	1,1,1-TRICHLOROETHANE	21		21			100.0
SW8260A	SOIL	1,1,2,2-TETRACHLOROETHANE	21		8		13	38.1
SW8260A	SOIL	1,1,2-TRICHLOROETHANE	21		21			100.0
SW8260A	SOIL	1,1-DICHLOROETHANE	21		21			100.0
SW8260A	SOIL	1,1,2-DICHLOROETHANE	21		21			100.0
SW8260A	SOIL	1,1-DICHLOROPROPENE	21		8		13	38.1
SW8260A	SOIL	1,1,2,3-TRICHLOROBENZENE	21		21			100.0
SW8260A	SOIL	1,2,3-TRICHLOROPROPENE	21		18		3	85.7
SW8260A	SOIL	1,2,4-TRICHLOROBENZENE	21		8		13	38.1
SW8260A	SOIL	1,2,4-TRIMETHYLBENZENE	21	1	20			100.0
SW8260A	SOIL	1,2-DIBROMO-3-CHLOROPROPANE	21		8		13	38.1
SW8260A	SOIL	1,2-DIBROMOETHANE	21		8		13	38.1
SW8260A	SOIL	1,2-DICHLOROBENZENE	21		21			100.0
SW8260A	SOIL	1,2-DICHLOROETHANE	21		18		3	85.7
SW8260A	SOIL	1,2-DICHLOROPROPANE	21		21			100.0

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-Flagged Values	No. of Rejected Values	Percent Completeness
SW8260A	SOIL	1,3,5-TRIMETHYLBENZENE	21	1	20			100.0
SW8260A	SOIL	1,3-DICHLOROBENZENE	21		21			100.0
SW8260A	SOIL	1,3-DICHLOROPROPANE	21		21			100.0
SW8260A	SOIL	1,4-DICHLOROBENZENE	21		21			100.0
SW8260A	SOIL	1-CHLOROHEXANE	21		10		11	47.6
SW8260A	SOIL	2,2-DICHLOROPROPANE	21		21			100.0
SW8260A	SOIL	2-CHLOROTOLUENE	21		21			100.0
SW8260A	SOIL	4-CHLOROTOLUENE	21		21			100.0
SW8260A	SOIL	BENZENE	21		21			100.0
SW8260A	SOIL	BROMOBENZENE	21		21			100.0
SW8260A	SOIL	BROMOCHLOROMETHANE	21		21			100.0
SW8260A	SOIL	BROMODICHLOROMETHANE	21		21			100.0
SW8260A	SOIL	BROMOFORM	21		8		13	38.1
SW8260A	SOIL	BROMOMETHANE	21		6		15	28.6
SW8260A	SOIL	CARBON TETRACHLORIDE	21		21			100.0
SW8260A	SOIL	CHLOROBENZENE	21		21			100.0
SW8260A	SOIL	CHLOROETHANE	21				21	0.
SW8260A	SOIL	CHLOROFORM	21		21			100.0
SW8260A	SOIL	CHLOROMETHANE	21	6		15	28.6	

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J. Flagged Values	No. of Rejected Values	Percent Completeness
SW8260A	SOIL	CIS-1,2-DICHLOROETHENE	21	21				100.0
SW8260A	SOIL	CIS-1,3-DICHLOROPROPENE	21	21				100.0
SW8260A	SOIL	DIBROMOCHLOROMETHANE	21	21				100.0
SW8260A	SOIL	DIBROMOMETHANE	21	21				100.0
SW8260A	SOIL	DICHLORODIFLUOROMETHANE	21	1	20	20	4.8	
SW8260A	SOIL	ETHYLBENZENE	21	1	20			100.0
SW8260A	SOIL	HEXAChLOROBUTADIENE	21	21				100.0
SW8260A	SOIL	ISOPROPYLBENZENE	21	15		6	71.4	
SW8260A	SOIL	M,P-XYLENE	21	2	19			100.0
SW8260A	SOIL	METHYLENE CHLORIDE	21			21	0	
SW8260A	SOIL	N-BUTYLBENZENE	21	1	20			100.0
SW8260A	SOIL	N-PROPYLBENZENE	21	1	14	6	71.4	
SW8260A	SOIL	NAPHTHALENE	21		6	15	28.6	
SW8260A	SOIL	O-XYLENE	21		21			100.0
SW8260A	SOIL	P-ISOPROPYL TOLUENE	21		21			100.0
SW8260A	SOIL	SEC-BUTYL BENZENE	21	1	20			100.0
SW8260A	SOIL	STYRENE	21		21			100.0
SW8260A	SOIL	TERT-BUTYL BENZENE	21	1	20			100.0
SW8260A	SOIL	TETRACHLOROETHENE	21		21			100.0

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-Flagged Values	No. of Rejected Values	Percent Completeness
SW8260A	SOIL	TOLUENE	21	21	21	21	21	100.0
SW8260A	SOIL	TRANS-1,2-DICHLOROETHENE	21	21	21	21	21	100.0
SW8260A	SOIL	TRANS-1,3-DICHLOROPROPENE	21	21	21	21	21	100.0
SW8260A	SOIL	TRICHLOROETHENE	21	21	21	21	21	100.0
SW8260A	SOIL	TRICHLOROFLUOROMETHANE	21	6	6	6	6	28.6
SW8260A	SOIL	VINYL CHLORIDE	21	21	21	15	15	100.0
SW8260A	WATER	1,1,1,2-TETRACHLOROETHANE	133	117	117	16	16	88
SW8260A	WATER	1,1,1-TRICHLOROETHANE	133	129	129	4	4	97
SW8260A	WATER	1,1,2,2-TETRACHLOROETHANE	133	133	133	133	133	100.0
SW8260A	WATER	1,1,2-TRICHLOROETHANE	133	125	125	8	8	94.
SW8260A	WATER	1,1-DICHLOROETHANE	133	121	121	12	12	91.
SW8260A	WATER	1,1-DICHLOROETHENE	133	5	128	26	26	100.0
SW8260A	WATER	1,1-DICHLOROPROPENE	133	121	121	12	12	91.
SW8260A	WATER	1,2,3-TRICHLOROBENZENE	133	119	119	14	14	89.5
SW8260A	WATER	1,2,3-TRICHLOROPROPANE	133	133	133	100.0	100.0	
SW8260A	WATER	1,2,4-TRICHLOROBENZENE	133	125	125	8	8	94.
SW8260A	WATER	1,2,4-TRIMETHYLBENZENE	133	117	117	12	12	91.
SW8260A	WATER	1,2-DIBROMO-3-CHLOROPROPANE	133	133	133	100.0	100.0	
SW8260A	WATER	1,2-DIBROMOETHANE	133	121	121	12	12	91.

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-Flagged Values	No. of Rejected Values	Percent Completeness
SW8260A	WATER	1,2-DICHLOROBENZENE	133	133				100.0
SW8260A	WATER	1,2-DICHLOROETHANE	133	1	124	8	8	94
SW8260A	WATER	1,2-DICHLOROPROpane	133	125			8	94
SW8260A	WATER	1,3,5-TRIMETHYLBENZENE	133	3	118	8	12	91.
SW8260A	WATER	1,3-DICHLOROBENZENE	133	133				100.0
SW8260A	WATER	1,3-DICHLOROPROPANE	133	125			8	94.
SW8260A	WATER	1,4-DICHLOROBENZENE	133	121			12	91
SW8260A	WATER	1-CHLOROHEXANE	133	49			84	36.8
SW8260A	WATER	2,2-DICHLOROPROPANE	133	129	9	4	4	97
SW8260A	WATER	2-CHLOROTOLUENE	133	133				100.0
SW8260A	WATER	4-CHLOROTOLUENE	133	133				100.0
SW8260A	WATER	BENZENE	133	5	128			100.0
SW8260A	WATER	BROMOBENZENE	133	125	1		8	94.
SW8260A	WATER	BROMOCHLOROMETHANE	133	48			85	36.1
SW8260A	WATER	BROMODICHLOROMETHANE	133	133	8			100.0
SW8260A	WATER	BROMOFORM	133	125			8	94
SW8260A	WATER	BROMOMETHANE	133	32			101	24.1
SW8260A	WATER	CARBON TETRACHLORIDE	133	121	8	12		91
SW8260A	WATER	CHLOROBENZENE	133	133				100.0

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-Flagged Values	No. of Rejected Values	Percent Completeness
SW8260A	WATER	CHLOROETHANE	133	48			85	36.1
SW8260A	WATER	CHLOROFORM	133	8	125	2		100.0
SW8260A	WATER	CHLORMETHANE	133		28		105	21.1
SW8260A	WATER	CIS-1,2-DICHLOROETHENE	133	80	53	13		100.0
SW8260A	WATER	CIS-1,3-DICHLOROPROPENE	133		133			100.0
SW8260A	WATER	DIBROMOCHLORMETHANE	133		121		12	91
SW8260A	WATER	DIBROMOMETHANE	133		125	8	8	94.
SW8260A	WATER	DICHLORODIFLUOROMETHANE	133		25		108	18.8
SW8260A	WATER	ETHYLBENZENE	133	3	130			100.0
SW8260A	WATER	HEXACHLOROBUTADIENE	133		129		4	97
SW8260A	WATER	ISOPROPYLBENZENE	133	8	121	1	4	97.
SW8260A	WATER	M,P-XYLENE	133	3	126	1	4	97
SW8260A	WATER	METHYLENE CHLORIDE	133		3		130	2.3
SW8260A	WATER	N-BUTYLBENZENE	133	7	126	2		100.0
SW8260A	WATER	N-PROPYLBENZENE	133	7	122	1	4	97
SW8260A	WATER	NAPHTHALENE	133	10	105	1	18	86.5
SW8260A	WATER	O-XYLENE	133		121		12	91
SW8260A	WATER	P-ISOPROPYL TOLUENE	133	2	131	1		100.0
SW8260A	WATER	SEC-BUTYL BENZENE	133	9	120	1	4	97.

Method	Matrix	Analyte	No. of Analyses	No. of Detected Values	No. of Non-detected Values	No. of J-Flagged Values	No. of Rejected Values	Percent Completeness
SW8260A	WATER	STYRENE	133	133	9	4	0	100.0
SW8260A	WATER	TERT-BUTYLBENZENE	133	4	125	2	4	97
SW8260A	WATER	TETRACHLOROETHENE	133	24	109	13	0	100.0
SW8260A	WATER	TOLUENE	133	1	132	1	0	100.0
SW8260A	WATER	TRANS-1,2-DICHLOROETHENE	133	28	105	17	0	100.0
SW8260A	WATER	TRANS-1,3-DICHLOROPROPENE	133	0	133	8	0	100.0
SW8260A	WATER	TRICHLOROETHENE	133	92	41	23	0	100.0
SW8260A	WATER	TRICHLOROFLUOROMETHANE	133	0	49	1	84	36.8
SW8260A	WATER	VINYL CHLORIDE	133	4	129	92	0	100.0
SW9056	WATER	BROMIDE	26	25	1	0	0	100.0
SW9056	WATER	CHLORIDE	26	26	0	0	0	100.0
SW9056	WATER	FLUORIDE	26	25	1	0	0	100.0
SW9056	WATER	NITRATE	26	17	9	7	0	100.0
SW9056	WATER	NITRITE	26	0	26	0	0	100.0
SW9056	WATER	ORTHOPHOSPHATE	26	4	22	2	0	100.0
SW9056	WATER	SULFATE	26	26	0	0	0	100.0
SW9060	SOIL	TOTAL ORGANIC CARBON	7	5	2	1	0	100.0
SW9060	WATER	TOTAL ORGANIC CARBON	26	22	4	2	0	100.0

Blanks Summary

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
7154	RSK-175	AIB018EB1	EB	ETHENE	0.76	U	0.76	µg/L
		AIB018EB1	EB	METHANE	0.38	U	0.38	µg/L
		AIB018EB1	EB	ETHANE	0.72	U	0.72	µg/L
		MB0429	LB	METHANE	0.32	U	0.32	µg/L
7163	RSK-175	AIB031EB1	EB	ETHENE	0.76	U	0.76	µg/L
		AIB031EB1	EB	METHANE	0.38	U	0.38	µg/L
		AIB031EB1	EB	ETHANE	0.73	U	0.73	µg/L
		MB0429	LB	ETHANE	0.61	U	0.61	µg/L
		MB0429	LB	ETHENE	0.65	U	0.65	µg/L
9711001	SW8260A	AHA001EB1	EB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA001EB1	EB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA001EB1	EB	CHLOROETHANE	1	U	1	UG/L
		AHA001EB1	EB	CHLOROFORM	0.3	U	0.3	UG/L
		AHA001EB1	EB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA001EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA001EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA001EB1	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA001EB1	EB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA001EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA001EB1	EB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA001EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA001EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA001EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA001EB1	EB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA001EB1	EB	METHYLENE CHLORIDE	1.5	U	0.3	UG/L
		AHA001EB1	EB	O-XYLENE	1.1	U	1.1	UG/L
		AHA001EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA001EB1	EB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711001	SW8260A	AHA001EB1	EB	STYRENE	0.4	U	0.4	UG/L
		AHA001EB1	EB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA001EB1	EB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA001EB1	EB	TOLUENE	1.1	U	1.1	UG/L
		AHA001EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA001EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA001EB1	EB	TRICHLOROETHENE	1	U	1	UG/L
		AHA001EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
		AHA001EB1	EB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		AHA001EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA001EB1	EB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA001EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA001EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA001EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA001EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA001EB1	EB	1,2,4-TRIMETHYL BENZENE	1.3	U	1.3	UG/L
		AHA001EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA001EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA001EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA001EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA001EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA001EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA001EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA001EB1	EB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA001EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA001EB1	EB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA001EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA001EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA001EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA001EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA001EB1	EB	BENZENE	0.4	U	0.4	UG/L
		AHA001EB1	EB	4-CHLORTOTOLUENE	0.6	U	0.6	UG/L
		AHA001EB1	EB	2-CHLORTOTOLUENE	0.4	U	0.4	UG/L

SDG	Method	Field ID	OCType	Analyte	Result	LabFlag	RL	Units
9711001	SW8260A	AHA001EB1	EB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
		AHA001EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA001EB1	EB	1,3-DICHLOROPROpane	0.4	U	0.4	UG/L
		AHA001EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA001EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA001EB1	EB	1,2-DICHLOROPROpane	0.4	U	0.4	UG/L
		AHA001EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA001EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
		AHA002TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA002TB1	TB	METHYLENE CHLORIDE	0.83	U	0.3	UG/L
		AHA002TB1	TB	M,P,XYLENE	1.3	U	1.3	UG/L
		AHA002TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA002TB1	TB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA002TB1	TB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA002TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA002TB1	TB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA002TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA002TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA002TB1	TB	CHLOROFORM	0.44	U	0.3	UG/L
		AHA002TB1	TB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA002TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA002TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA002TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA002TB1	TB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
		AHA002TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA002TB1	TB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
		AHA002TB1	TB	VINYLCHLORIDE	1.1	U	1.1	UG/L
		AHA002TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA002TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA002TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711001	SW8260A	AHA002TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA002TB1	TB	TRICHLOROETHENE	1	U	1	UG/L
		AHA002TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
		AHA002TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA002TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA002TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA002TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA002TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA002TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA002TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA002TB1	TB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA002TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA002TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA002TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA002TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA002TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA002TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA002TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA002TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA002TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA002TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
		AHA002TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA002TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA002TB1	TB	BENZENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA002TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA002TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA002TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA002TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA002TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA002TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711001	SW8260A	AHA002TBI	TB	2,2-DICHLOROPROpane	3.5	U	3.5	UGL
		AHA002TBI	TB	BROMOMETHANE	1.1	U	1.1	UGL
	LABQC	LB	BROMOFORM		1.2	U	1.2	UGL
	LABQC	LB	TRICHLOROFUOROMETHANE	0.8	U	0.8	UGL	
	LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6	UGL	
	LABQC	LB	N-BUTYL BENZENE	1.1	U	1.1	UGL	
	LABQC	LB	CHLOROETHANE	1	U	1	UGL	
	LABQC	LB	DBROMOCHLOROMETHANE	0.5	U	0.5	UGL	
	LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UGL	
	LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4	UGL	
	LABQC	LB	DICHLORODIFLUOROMETHANE	1	U	1	UGL	
	LABQC	LB	M,P-XYLENE	1.3	U	1.3	UGL	
	LABQC	LB	BENZENE	0.4	U	0.4	UGL	
	LABQC	LB	BROMOMETHANE	1.1	U	1.1	UGL	
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UGL	
	LABQC	LB	O-XYLENE	1.1	U	1.1	UGL	
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UGL	
	LABQC	LB	METHYLENE CHLORIDE	3.5	U	0.3	UGL	
	LABQC	LB	BROMOBENZENE	0.3	U	0.3	UGL	
	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UGL	
	LABQC	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UGL	
	LABQC	LB	DBROMOMETHANE	2.4	U	2.4	UGL	
	LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5	UGL	
	LABQC	LB	CHLOROBENZENE	0.4	U	0.4	UGL	
	LABQC	LB	TRICHLOROETHENE	1	U	1	UGL	
	LABQC	LB	HEXACHLOROBUTADIENE	1.1	U	1.1	UGL	
	LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4	UGL	
	LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UGL	
	LABQC	LB	2,2-DICHLOROPROpane	3.5	U	3.5	UGL	
	LABQC	LB	VINYL CHLORIDE	1.1	U	1.1	UGL	
	LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1	UGL	
	LABQC	LB	SEC-BUTYL BENZENE	1.3	U	1.3	UGL	
	LABQC	LB	TERT-BUTYL BENZENE	1.4	U	1.4	UGL	

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711001	SW8260A	LABQC	LB	CHLOROMETHANE	1.3	U	1.3	UG/L
		LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		LABQC	LB	ETHYLBENZENE	0.6	U	0.6	UG/L
		LABQC	LB	STYRENE	0.4	U	0.4	UG/L
		LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		LABQC	LB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		LABQC	LB	TOLUENE	1.1	U	1.1	UG/L
		LABQC	LB	CHLOROFORM	0.3	U	0.3	UG/L
		LABQC	LB	NAPHTHALENE	0.45	U	0.4	UG/L
		LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		LABQC	LB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
9711018	SW8260A	AHA006AB1	AB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA006AB1	AB	METHYLENE CHLORIDE	2.1	U	0.3	UG/L
		AHA006AB1	AB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA006AB1	AB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L

SDG	Method	Field ID	QCType	Analyte	Result		LabFlag	RL Units
					U	U		
9711018	SW8260A	AHA006AB1	AB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA006AB1	AB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA006AB1	AB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA006AB1	AB	DBROMOMETHANE	2.4	U	2.4	UG/L
		AHA006AB1	AB	DBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA006AB1	AB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA006AB1	AB	CHLOROFORM	0.3	U	0.3	UG/L
		AHA006AB1	AB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA006AB1	AB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA006AB1	AB	CHLOROETHANE	1	U	1	UG/L
		AHA006AB1	AB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA006AB1	AB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	O-XYLENE	1.1	U	1.1	UG/L
		AHA006AB1	AB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA006AB1	AB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
		AHA006AB1	AB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		AHA006AB1	AB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA006AB1	AB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA006AB1	AB	TOLUENE	1.1	U	1.1	UG/L
		AHA006AB1	AB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA006AB1	AB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA006AB1	AB	TRICHLOROETHENE	1	U	1	UG/L
		AHA006AB1	AB	TRICHLOROFUOROMETHANE	0.8	U	0.8	UG/L
		AHA006AB1	AB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	STYRENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA006AB1	AB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA006AB1	AB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA006AB1	AB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA006AB1	AB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA006AB1	AB	1,1-DICHLOROPROPENE	1	U	1	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711018	SW8260A	AHA006AB1	AB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA006AB1	AB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA006AB1	AB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA006AB1	AB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA006AB1	AB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA006AB1	AB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA006AB1	AB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA006AB1	AB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA006AB1	AB	BENZENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA006AB1	AB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA006AB1	AB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA006AB1	AB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA006AB1	AB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA006AB1	AB	BROMOFORM	1.2	U	1.2	UG/L
		AHA006AB1	AB	4-CHLORTOLUENE	0.6	U	0.6	UG/L
		AHA006AB1	AB	2-CHLORTOLUENE	0.4	U	0.4	UG/L
		AHA006AB1	AB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA006AB1	AB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA006AB1	AB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA006AB1	AB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA006AB1	AB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA006AB1	AB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA007EB1	EB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA007EB1	EB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA007EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA007EB1	EB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA007EB1	EB	ETHYL BENZENE	0.6	U	0.6	UG/L
		AHA007EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA007EB1	EB	DBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA007EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA007EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA007EB1	EB	CHLOROMETHANE	1.3	U	1.3	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711018	SW8260A	AHA007EB1	EB	CHLOROFORM	0.3	U	0.3	UG/L
	AHA007EB1	EB		CHLOROBENZENE	0.4	U	0.4	UG/L
	AHA007EB1	EB		METHYLENE CHLORIDE	1.8	U	0.3	UG/L
	AHA007EB1	EB		CHLOROETHANE	1	U	1	UG/L
	AHA007EB1	EB		TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
	AHA007EB1	EB		VINYL CHLORIDE	1.1	U	1.1	UG/L
	AHA007EB1	EB		BROMOFORM	1.2	U	1.2	UG/L
	AHA007EB1	EB		TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
	AHA007EB1	EB		TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA007EB1	EB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	AHA007EB1	EB		TRICHLOROETHENE	1	U	1	UG/L
	AHA007EB1	EB		TETRACHLOROETHENE	1.4	U	1.4	UG/L
	AHA007EB1	EB		N-BUTYL BENZENE	1.1	U	1.1	UG/L
	AHA007EB1	EB		STYRENE	0.4	U	0.4	UG/L
	AHA007EB1	EB		SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
	AHA007EB1	EB		P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	AHA007EB1	EB		OXYLENE	1.1	U	1.1	UG/L
	AHA007EB1	EB		NAPHTHALENE	0.4	U	0.4	UG/L
	AHA007EB1	EB		N-ISOPROPYL BENZENE	0.4	U	0.4	UG/L
	AHA007EB1	EB		TOLUENE	1.1	U	1.1	UG/L
	AHA007EB1	EB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA007EB1	EB		CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	AHA007EB1	EB		BROMOMETHANE	1.1	U	1.1	UG/L
	AHA007EB1	EB		1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	AHA007EB1	EB		1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	AHA007EB1	EB		1,1,2-TRICHLOROETHANE	1	U	1	UG/L
	AHA007EB1	EB		1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
	AHA007EB1	EB		1,1-DICHLOROPROPENE	1	U	1	UG/L
	AHA007EB1	EB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	AHA007EB1	EB		1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
	AHA007EB1	EB		1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
	AHA007EB1	EB		1,2,4-TRIMETHYL BENZENE	1.3	U	1.3	UG/L
	AHA007EB1	EB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L

SDG	Method FieldID	QCType	Analyte	Result	LabFlag	RL Units	
9711018	SW8260A	AHA007EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		AHA007EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA007EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL
		AHA007EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA007EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
		AHA007EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		AHA007EB1	EB	BROMOBENZENE	0.3	U	0.3 UGL
		AHA007EB1	EB	BENZENE	0.4	U	0.4 UGL
		AHA007EB1	EB	4-CHLORTOLUENE	0.6	U	0.6 UGL
		AHA007EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		AHA007EB1	EB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
		AHA007EB1	EB	1-CHLOROHEXANE	0.5	U	0.5 UGL
		AHA007EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA007EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA007EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA007EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		AHA007EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA008TB1	TB	CHLOROFORM	0.43		0.3 UGL
		AHA008TB1	TB	M,P-XYLENE	1.3	U	1.3 UGL
		AHA008TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5 UGL
		AHA008TB1	TB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		AHA008TB1	TB	ETHYLBENZENE	0.6	U	0.6 UGL
		AHA008TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA008TB1	TB	DI(BROMOMETHANE)	2.4	U	2.4 UGL
		AHA008TB1	TB	DI(BROMOCHLOROMETHANE)	0.5	U	0.5 UGL
		AHA008TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA008TB1	TB	CHLOROBENZENE	0.4	U	0.4 UGL
		AHA008TB1	TB	CHLOROMETHANE	1.3	U	1.3 UGL
		AHA008TB1	TB	N-BUTYLBENZENE	1.1	U	1.1 UGL
		AHA008TB1	TB	CHLOROETHANE	1	U	1 UGL
		AHA008TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA008TB1	TB	NAPHTHALENE	0.4	U	0.4 UGL
		AHA008TB1	TB	O-XYLENE	1.1	U	1.1 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711018	SW8260A	AHA008TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	AHA008TB1	TB		SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
	AHA008TB1	TB		STYRENE	0.4	U	0.4	UG/L
	AHA008TB1	TB		TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
	AHA008TB1	TB		TETRACHLOROETHENE	1.4	U	1.4	UG/L
	AHA008TB1	TB		TOLUENE	1.1	U	1.1	UG/L
	AHA008TB1	TB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	AHA008TB1	TB		TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA008TB1	TB		TRICHLOROETHENE	1	U	1	UG/L
	AHA008TB1	TB		TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
	AHA008TB1	TB		VINYL CHLORIDE	1.1	U	1.1	UG/L
	AHA008TB1	TB		METHYLENE CHLORIDE	2.2	U	0.3	UG/L
	AHA008TB1	TB		CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	AHA008TB1	TB		1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	AHA008TB1	TB		1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	AHA008TB1	TB		1,1,2-TRICHLOROETHANE	1	U	1	UG/L
	AHA008TB1	TB		1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
	AHA008TB1	TB		1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA008TB1	TB		1,1-DICHLOROPROPENE	1	U	1	UG/L
	AHA008TB1	TB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA008TB1	TB		1,2,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
	AHA008TB1	TB		1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
	AHA008TB1	TB		1,2,4-TRIMETHYL BENZENE	1.3	U	1.3	UG/L
	AHA008TB1	TB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
	AHA008TB1	TB		1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
	AHA008TB1	TB		1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA008TB1	TB		N-PROPYLBENZENE	0.4	U	0.4	UG/L
	AHA008TB1	TB		1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
	AHA008TB1	TB		BENZENE	0.4	U	0.4	UG/L
	AHA008TB1	TB		BROMOMETHANE	1.1	U	1.1	UG/L
	AHA008TB1	TB		BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	AHA008TB1	TB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	AHA008TB1	TB		BROMOBENZENE	0.3	U	0.3	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711018	SW8260A	AHA008TB1	TB	BROMOFORM	1.2	U	1.2 UGL
	AHA008TB1	TB		4-CHLOROTOLUENE	0.6	U	0.6 UGL
	AHA008TB1	TB		2-CHLOROTOLUENE	0.4	U	0.4 UGL
	AHA008TB1	TB		2,2-DICHLOROPROpane	3.5	U	3.5 UGL
	AHA008TB1	TB		1-CHLOROHEXANE	0.5	U	0.5 UGL
	AHA008TB1	TB		1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA008TB1	TB		1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA008TB1	TB		1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
	AHA008TB1	TB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA008TB1	TB		1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA008TB1	TB		BROMOCHLOROMETHANE	0.4	U	0.4 UGL
	LABQC	LB		DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
	LABQC	LB		N-BUTYLBENZENE	1.1	U	1.1 UGL
	LABQC	LB		DIBROMOMETHANE	2.4	U	2.4 UGL
	LABQC	LB		BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	LABQC	LB		TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
	LABQC	LB		BROMOFORM	1.2	U	1.2 UGL
	LABQC	LB		CHLOROETHANE	1	U	1 UGL
	LABQC	LB		M,P-XYLENE	1.3	U	1.3 UGL
	LABQC	LB		BROMOMETHANE	1.1	U	1.1 UGL
	LABQC	LB		ISOPROPYLBENZENE	0.5	U	0.5 UGL
	LABQC	LB		ETHYLBENZENE	0.6	U	0.6 UGL
	LABQC	LB		CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	LABQC	LB		HEXAChLOROBUTADIENE	1.1	U	1.1 UGL
	LABQC	LB		TRICHLOROETHENE	1	U	1 UGL
	LABQC	LB		DICHLORODIFLUOROMETHANE	1	U	1 UGL
	LABQC	LB		BENZENE	0.4	U	0.4 UGL
	LABQC	LB		TERT-BUTYLBENZENE	1.4	U	1.4 UGL
	LABQC	LB		STYRENE	0.4	U	0.4 UGL
	LABQC	LB		2-CHLOROTOLUENE	0.4	U	0.4 UGL
	LABQC	LB		TOLUENE	1.1	U	1.1 UGL
	LABQC	LB		CHLOROMETHANE	1.3	U	1.3 UGL
	LABQC	LB		CIS-1,3-DICHLOROPROPENE	1	U	1 UGL

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711018	SW8260A LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
	LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
	LABQC	LB	VINYL CHLORIDE	1.1	U	1.1	UG/L
	LABQC	LB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
	LABQC	LB	P-ISOPROPYL-TOLUENE	1.2	U	1.2	UG/L
	LABQC	LB	METHYLENE CHLORIDE	3.5	U	0.3	UG/L
	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
	LABQC	LB	OXYLENE	1.1	U	1.1	UG/L
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	LABQC	LB	BROMOBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	1-CHLOROHXANE	0.5	U	0.5	UG/L
	LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
	LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	LABQC	LB	NAPHTHALENE	0.45	U	0.4	UG/L
	LABQC	LB	CHLOROFORM	0.3	U	0.3	UG/L
	LABQC	LB	CHLOROBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	1,2-DICHLOROPROpane	0.4	U	0.4	UG/L
	LABQC	LB	1,1-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	1,2-DIBROMO-3-CHLOROPROpane	2.6	U	2.6	UG/L
	LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
	LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
	LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
	LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	LABQC	LB	1,1,2-TRICHLOROETHANE	0.4	U	0.4	UG/L
	LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711018	SW8260A	LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		LABQC	LB	1,3-DICHLOROPROFANE	0.4	U	0.4 UGL
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
9711193	SW8260A	AHA013TB1	TB	METHYLENE CHLORIDE	0.3	U	0.3 UGL
		AHA013TB1	TB	M,P-XYLENE	1.3	U	1.3 UGL
		AHA013TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5 UGL
		AHA013TB1	TB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		AHA013TB1	TB	ETHYLBENZENE	0.6	U	0.6 UGL
		AHA013TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA013TB1	TB	DIBROMOMETHANE	2.4	U	2.4 UGL
		AHA013TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
		AHA013TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA013TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA013TB1	TB	CHLOROMETHANE	1.3	U	1.3 UGL
		AHA013TB1	TB	N-BUTYLBENZENE	1.1	U	1.1 UGL
		AHA013TB1	TB	CHLOROETHANE	1	U	1 UGL
		AHA013TB1	TB	TOLUENE	1.1	U	1.1 UGL
		AHA013TB1	TB	CHLOROFORM	0.3	U	0.3 UGL
		AHA013TB1	TB	N-PROPYLBENZENE	0.4	U	0.4 UGL
		AHA013TB1	TB	NAPHTHALENE	0.4	U	0.4 UGL
		AHA013TB1	TB	O-XYLENE	1.1	U	1.1 UGL
		AHA013TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL
		AHA013TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3 UGL
		AHA013TB1	TB	STYRENE	0.4	U	0.4 UGL
		AHA013TB1	TB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA013TB1	TB	TRANS-1,2-DICHLOROPROPENE	0.6	U	0.6 UGL
		AHA013TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA013TB1	TB	TRICHLOROFUOROMETHANE	1	U	1 UGL
		AHA013TB1	TB	TRICHLOROETHENE	0.8	U	0.8 UGL
		AHA013TB1	TB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA013TB1	TB	CHLOROBENZENE	0.4	U	0.4 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711193	SW8260A	AHA013TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
	AHA013TB1	TB		TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
	AHA013TB1	TB		1,1-DICHLOROPROPENE	1	U	1	UG/L
	AHA013TB1	TB		1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA013TB1	TB		1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
	AHA013TB1	TB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
	AHA013TB1	TB		1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
	AHA013TB1	TB		1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
	AHA013TB1	TB		1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
	AHA013TB1	TB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA013TB1	TB		1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	AHA013TB1	TB		1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA013TB1	TB		1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
	AHA013TB1	TB		1,1,2-TRICHLOROETHANE	1	U	1	UG/L
	AHA013TB1	TB		1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	AHA013TB1	TB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	AHA013TB1	TB		CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	AHA013TB1	TB		1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
	AHA013TB1	TB		BENZENE	0.4	U	0.4	UG/L
	AHA013TB1	TB		BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	AHA013TB1	TB		1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
	AHA013TB1	TB		BROMOBENZENE	0.3	U	0.3	UG/L
	AHA013TB1	TB		BROMOMETHANE	1.1	U	1.1	UG/L
	AHA013TB1	TB		4-CHLOROPROPANE	0.6	U	0.6	UG/L
	AHA013TB1	TB		2-CHLOROTOLUENE	0.4	U	0.4	UG/L
	AHA013TB1	TB		2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
	AHA013TB1	TB		1-CHLOROHEXANE	0.5	U	0.5	UG/L
	AHA013TB1	TB		1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA013TB1	TB		1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
	AHA013TB1	TB		1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	AHA013TB1	TB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
	AHA013TB1	TB		BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	AHA014EB1	EB		M,P-XYLENE	1.3	U	1.3	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units	
							0.5	UGL
9711193	SW8260A	AHA014EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5	UGL
		AHA014EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1	UGL
		AHA014EB1	EB	ETHYLBENZENE	0.6	U	0.6	UGL
		AHA014EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UGL
		AHA014EB1	EB	DIBROMOMETHANE	2.4	U	2.4	UGL
		AHA014EB1	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UGL
		AHA014EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UGL
		AHA014EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UGL
		AHA014EB1	EB	CHLOROMETHANE	1.3	U	1.3	UGL
		AHA014EB1	EB	CHLOROFORM	0.3	U	0.3	UGL
		AHA014EB1	EB	METHYLENE CHLORIDE	0.89	U	0.3	UGL
		AHA014EB1	EB	CHLOROBENZENE	0.4	U	0.4	UGL
		AHA014EB1	EB	TERT-BUTYL BENZENE	1.4	U	1.4	UGL
		AHA014EB1	EB	CHLOROETHANE	1	U	1	UGL
		AHA014EB1	EB	N-BUTYL BENZENE	1.1	U	1.1	UGL
		AHA014EB1	EB	N-PROPYLBENZENE	0.4	U	0.4	UGL
		AHA014EB1	EB	NAPHTHALENE	0.4	U	0.4	UGL
		AHA014EB1	EB	O-XYLENE	1.1	U	1.1	UGL
		AHA014EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UGL
		AHA014EB1	EB	VINYL CHLORIDE	1.1	U	1.1	UGL
		AHA014EB1	EB	STYRENE	0.4	U	0.4	UGL
		AHA014EB1	EB	TETRACHLOROETHENE	1.4	U	1.4	UGL
		AHA014EB1	EB	TOLUENE	1.1	U	1.1	UGL
		AHA014EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UGL
		AHA014EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UGL
		AHA014EB1	EB	TRICHLOROETHENE	1	U	1	UGL
		AHA014EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UGL
		AHA014EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1	UGL
		AHA014EB1	EB	SEC-BUTYL BENZENE	1.3	U	1.3	UGL
		AHA014EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UGL
		AHA014EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UGL
		AHA014EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UGL
		AHA014EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UGL

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9711193	SW8260A	AHA014EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4 UG/L
	AHA014EB1	EB		1,1-DICHLOROETHENE	1.2	U	1.2 UG/L
	AHA014EB1	EB		1,1-DICHLOROPROPENE	1	U	1 UG/L
	AHA014EB1	EB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UG/L
	AHA014EB1	EB		1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UG/L
	AHA014EB1	EB		1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UG/L
	AHA014EB1	EB		1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UG/L
	AHA014EB1	EB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UG/L
	AHA014EB1	EB		1,2-DIBROMOETHANE	0.6	U	0.6 UG/L
	AHA014EB1	EB		BROMOMETHANE	1.1	U	1.1 UG/L
	AHA014EB1	EB		1,2-DICHLOROETHANE	0.6	U	0.6 UG/L
	AHA014EB1	EB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UG/L
	AHA014EB1	EB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UG/L
	AHA014EB1	EB		1,3-DICHLOROBENZENE	1.2	U	1.2 UG/L
	AHA014EB1	EB		1,3-DICHLOROPROPANE	0.4	U	0.4 UG/L
	AHA014EB1	EB		1,4-DICHLOROBENZENE	0.3	U	0.3 UG/L
	AHA014EB1	EB		1-CHLOROHEXANE	0.5	U	0.5 UG/L
	AHA014EB1	EB		2,2-DICHLOROPROPANE	3.5	U	3.5 UG/L
	AHA014EB1	EB		2-CHLOROTOLUENE	0.4	U	0.4 UG/L
	AHA014EB1	EB		4-CHLOROTOLUENE	0.6	U	0.6 UG/L
	AHA014EB1	EB		BENZENE	0.4	U	0.4 UG/L
	AHA014EB1	EB		BROMOBENZENE	0.3	U	0.3 UG/L
	AHA014EB1	EB		BROMOCHLOROMETHANE	0.4	U	0.4 UG/L
	AHA014EB1	EB		BROMODICHLOROMETHANE	0.8	U	0.8 UG/L
	AHA014EB1	EB		BROMOFORM	1.2	U	1.2 UG/L
	AHA014EB1	EB		1,2-DICHLOROBENZENE	0.3	U	0.3 UG/L
	LABQC	LB		CIS-1,2-DICHLOROETHENE	0.006	U	0.006 MG/KG
	LABQC	LB		TRICHLOROETHENE	1	U	1 UG/L
	LABQC	LB		ETHYLBENZENE	0.003	U	0.003 MG/KG
	LABQC	LB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UG/L
	LABQC	LB		DICHLORODIFLUOROMETHANE	1	U	1 UG/L
	LABQC	LB		DICHLORODIFLUOROMETHANE	0.005	U	0.005 MG/KG
	LABQC	LB		DIBROMOCHLOROMETHANE	0.003	U	0.003 MG/KG

SDG	Method	FieldID	QCType	Analyte	Result	LabFlag	RL Units
9711193	SW8260A	LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.004	U	0.004 MG/KG
		LABQC	LB	DIBROMOMETHANE	2.4	U	2.4 UGL
		LABQC	LB	DIBROMOMETHANE	0.01	U	0.01 MG/KG
		LABQC	LB	CIS-1,3-DICHLOROPROPENE	0.005	U	0.005 MG/KG
		LABQC	LB	TOLUENE	0.005	U	0.005 MG/KG
		LABQC	LB	METHYLENE CHLORIDE	0.006	U	0.002 MG/KG
		LABQC	LB	O-XYLENE	0.005	U	0.005 MG/KG
		LABQC	LB	O-XYLENE	1.1	U	1.1 UGL
		LABQC	LB	P-ISOPROPYL TOLUENE	0.006	U	0.006 MG/KG
		LABQC	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL
		LABQC	LB	SEC-BUTYL BENZENE	0.007	U	0.007 MG/KG
		LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		LABQC	LB	TOLUENE	1.1	U	1.1 UGL
		LABQC	LB	NAPHTHALENE	0.4	U	0.4 UGL
		LABQC	LB	STYRENE	0.002	U	0.002 MG/KG
		LABQC	LB	STYRENE	0.4	U	0.4 UGL
		LABQC	LB	TERT-BUTYL BENZENE	0.007	U	0.007 MG/KG
		LABQC	LB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
		LABQC	LB	TETRACHLOROETHENE	0.007	U	0.007 MG/KG
		LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		LABQC	LB	SEC-BUTYL BENZENE	1.3	U	1.3 UGL
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005 MG/KG
		LABQC	LB	ETHYL BENZENE	0.6	U	0.6 UGL
		LABQC	LB	HEXACHLOROBUTADIENE	0.005	U	0.005 MG/KG
		LABQC	LB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		LABQC	LB	ISOPROPYL BENZENE	0.008	U	0.008 MG/KG
		LABQC	LB	ISOPROPYL BENZENE	0.5	U	0.5 UGL
		LABQC	LB	M,P-XYLENE	0.007	U	0.007 MG/KG
		LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003 MG/KG
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		LABQC	LB	TRICHLOROETHENE	0.01	U	0.01 MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
971193	SW8260A	LABQC	LB	METHYLENE CHLORIDE	2.8	U	0.3	UG/L
		LABQC	LB	N-BUTYLBENZENE	0.005	U	0.005	MG/KG
		LABQC	LB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		LABQC	LB	N-PROPYLBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	NAPHTHALENE	0.002	U	0.002	MG/KG
		LABQC	LB	M,P-XYLENE	1.3	U	1.3	UG/L
		LABQC	LB	BROMODICHLOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	BENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	CHLOROFORM	0.002	U	0.002	MG/KG
		LABQC	LB	BENZENE	0.4	U	0.4	UG/L
		LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		LABQC	LB	BROMOBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		LABQC	LB	BROMOCHLOROMETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		LABQC	LB	CHLOROFORM	0.3	U	0.3	UG/L
		LABQC	LB	CHLOROETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	BROMOBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		LABQC	LB	BROMOFORM	0.006	U	0.006	MG/KG
		LABQC	LB	CHLOROBENZENE	1.2	U	1.2	UG/L
		LABQC	LB	CHLOROBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	BROMOMETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOMETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	CARBON TETRACHLORIDE	1.1	U	1.1	UG/L
		LABQC	LB	CHLOROETHANE	0.01	U	0.01	MG/KG
		LABQC	LB	CHLOROMETHANE	1	U	1	UG/L
		LABQC	LB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		LABQC	LB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		LABQC	LB	VINYL CHLORIDE	0.009	U	0.009	MG/KG
		LABQC	LB	2-CHLORTOLUENE	0.002	U	0.002	MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711193	SW8260A	LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		LABQC	LB	4-CHLOROTOLUENE	0.003	U	0.003	MG/KG
		LABQC	LB	1-CHLOROHEXANE	0.003	U	0.003	MG/KG
		LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		LABQC	LB	CHLOROMETHANE	1.3	U	1.3	UG/L
		LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		LABQC	LB	2,2-DICHLOROPROPANE	0.02	U	0.02	MG/KG
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003	MG/KG
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2-DICHLOROPROPANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		LABQC	LB	1,2,3-TRICHLOROPROPANE	0.02	U	0.02	MG/KG
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,3-DICHLOROBENZENE	0.006	U	0.006	MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		LABQC	LB	1,2-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2-DIBROMOETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		LABQC	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	0.01	U	0.01	MG/KG
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	0.007	U	0.007	MG/KG

SDG	Method	Field ID	QcType	Analyte	Result	LabFlag	RL	Units
								UG/L
9711193	SW8260A LABQC	LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
				1,1-DICHLOROETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
				1,2-DICHLOROETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
				1,2-DICHLOROPROpane	0.4	U	0.4	UG/L
		LABQC	LB	1,4-DICHLOROBENZENE	0.002	U	0.002	MG/KG
				1,1-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
				1,1-DICHLOROPROPENE	1	U	1	UG/L
		LABQC	LB	1,3-DICHLOROPROPANE	0.002	U	0.002	MG/KG
				1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
				1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003	MG/KG
SW9060	AHA014EB1	BB	BB	TOTAL ORGANIC CARBON	1	U	1	MG/L
				TOTAL ORGANIC CARBON	1	U	1	MG/L
		LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
				M,P-XYLENE	1.3	U	1.3	UG/L
		AHA017TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
				HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA017TB1	TB	ETHYLBENZENE	0.6	U	0.6	UG/L
				VINYL CHLORIDE	1.1	U	1.1	UG/L
		AHA017TB1	TB	DBROMOMETHANE	2.4	U	2.4	UG/L
				N-PROPYLBENZENE	0.4	U	0.4	UG/L
9711209	SW8260A AHA017TB1	TB	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
				CIS-1,2 DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA017TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
				CHLOROFORM	0.54	U	0.3	UG/L
		AHA017TB1	TB	CHLOROETHANE	1	U	1	UG/L
				CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA017TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
				N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA017TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711209	SW8260A	AHA017TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
	AHA017TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L	
	AHA017TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L	
	AHA017TB1	TB	STYRENE	0.4	U	0.4	UG/L	
	AHA017TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L	
	AHA017TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L	
	AHA017TB1	TB	TOLUENE	1.4	U	1.4	UG/L	
	AHA017TB1	TB	TRANS-1,2-DICHLOROETHENE	1.1	U	1.1	UG/L	
	AHA017TB1	TB	TRANS-1,3-DICHLOROPROPENE	0.6	U	0.6	UG/L	
	AHA017TB1	TB	TRICHLOROETHENE	1	U	1	UG/L	
	AHA017TB1	TB	TRICHLOROFLUOROMETHANE	1	U	1	UG/L	
	AHA017TB1	TB	CARBON TETRACHLORIDE	0.8	U	0.8	UG/L	
	AHA017TB1	TB	BROMOMETHANE	2.1	U	2.1	UG/L	
	AHA017TB1	TB	METHYLENE CHLORIDE	0.71	U	0.3	UG/L	
	AHA017TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L	
	AHA017TB1	TB	1,1-DICHLOROETHANE	1.1	U	1.1	UG/L	
	AHA017TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L	
	AHA017TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L	
	AHA017TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L	
	AHA017TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L	
	AHA017TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L	
	AHA017TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L	
	AHA017TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L	
	AHA017TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L	
	AHA017TB1	TB	1,2,4-TRIMETHYL BENZENE	1.3	U	1.3	UG/L	
	AHA017TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L	
	AHA017TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L	
	AHA017TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L	
	AHA017TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L	
	AHA017TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L	
	AHA017TB1	TB	1,1-DICHLOROPROPENE	1	U	1	UG/L	
	AHA017TB1	TB	BROMOFORM	1.2	U	1.2	UG/L	
	AHA017TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L	
	AHA017TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L	

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711209	SW8260A	AHA017TB1	TB	BROMOBENZENE	0.3	U	0.3 UGL
		AHA017TB1	TB	BENZENE	0.4	U	0.4 UGL
		AHA017TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
		AHA017TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		AHA017TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
		AHA017TB1	TB	1-CHLOROHEXANE	0.5	U	0.5 UGL
		AHA017TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA017TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA017TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA017TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		AHA017TB1	EB	CHLORMETHANE	1.3	U	1.3 UGL
		AHA018EB1	EB	METHYLENE CHLORIDE	1.3	U	0.3 UGL
		AHA018EB1	EB	M,P-XYLENE	1.3	U	1.3 UGL
		AHA018EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5 UGL
		AHA018EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		AHA018EB1	EB	ETHYLBENZENE	0.6	U	0.6 UGL
		AHA018EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA018EB1	EB	DIBROMOMETHANE	2.4	U	2.4 UGL
		AHA018EB1	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
		AHA018EB1	EB	CHLOROPHETHANE	1	U	1 UGL
		AHA018EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA018EB1	EB	N-BUTYLBENZENE	1.1	U	1.1 UGL
		AHA018EB1	EB	CHLOROFORM	0.3	U	0.3 UGL
		AHA018EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA018EB1	EB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA018EB1	EB	BROMOFORM	1.2	U	1.2 UGL
		AHA018EB1	EB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA018EB1	EB	CHLOROBENZENE	0.4	U	0.4 UGL
		AHA018EB1	EB	TRICHLOROETHENE	1	U	1 UGL
		AHA018EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA018EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA018EB1	EB	TOLUENE	1.1	U	1.1 UGL
		AHA018EB1	EB	N-PROPYLBENZENE	0.4	U	0.4 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711209	SW8260A	AHA018EB1	EB	TERT-BUTYLBENZENE	1.4	U	1.4 UGL
	AHA018EB1	EB		STYRENE	0.4	U	0.4 UGL
	AHA018EB1	EB		SEC-BUTYLBENZENE	1.3	U	1.3 UGL
	AHA018EB1	EB		P-ISOPROPYLTOULENE	1.2	U	1.2 UGL
	AHA018EB1	EB		O-XYLENE	1.1	U	1.1 UGL
	AHA018EB1	EB		NAPHTHALENE	0.4	U	0.4 UGL
	AHA018EB1	EB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
	AHA018EB1	EB		1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
	AHA018EB1	EB		CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	AHA018EB1	EB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
	AHA018EB1	EB		1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
	AHA018EB1	EB		1,1,2-TRICHLOROETHANE	1	U	1 UGL
	AHA018EB1	EB		1,1-DICHLOROETHANE	0.4	U	0.4 UGL
	AHA018EB1	EB		1,1-DICHLOROETHENE	1.2	U	1.2 UGL
	AHA018EB1	EB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
	AHA018EB1	EB		1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
	AHA018EB1	EB		1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
	AHA018EB1	EB		1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
	AHA018EB1	EB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
	AHA018EB1	EB		1,2-DIBROMOETHANE	0.6	U	0.6 UGL
	AHA018EB1	EB		1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA018EB1	EB		1,2-DICHLOROETHANE	0.6	U	0.6 UGL
	AHA018EB1	EB		BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	AHA018EB1	EB		1,1-DICHLOROPROPENE	1	U	1 UGL
	AHA018EB1	EB		BROMOMETHANE	1.1	U	1.1 UGL
	AHA018EB1	EB		1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA018EB1	EB		BROMOCHLOROMETHANE	0.4	U	0.4 UGL
	AHA018EB1	EB		BROMOBENZENE	0.3	U	0.3 UGL
	AHA018EB1	EB		BENZENE	0.4	U	0.4 UGL
	AHA018EB1	EB		4-CHLOROTOLUENE	0.6	U	0.6 UGL
	AHA018EB1	EB		2-CHLOROTOLUENE	0.4	U	0.4 UGL
	AHA018EB1	EB		2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
	AHA018EB1	EB		1-CHLOROHEXANE	0.5	U	0.5 UGL

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711209	SW8260A	AHA018EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3 UG/L
	AHA018EB1	EB	1,3-DICHLOROPROpane	0.4	U	0.4	UG/L
	AHA018EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	AHA018EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
	LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	LABQC	LB	M,P-XYLENE	1.3	U	1.3	UG/L
	LABQC	LB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
	LABQC	LB	BROMOMETHANE	1.1	U	1.1	UG/L
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
	LABQC	LB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L
	LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
	LABQC	LB	BROMOFORM	1.2	U	1.2	UG/L
	LABQC	LB	METHYLENE CHLORIDE	0.55	U	0.3	UG/L
	LABQC	LB	NAPHTHALENE	0.4	U	0.4	UG/L
	LABQC	LB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
	LABQC	LB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
	LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	BROMOBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
	LABQC	LB	TOLUENE	1.1	U	1.1	UG/L
	LABQC	LB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
	LABQC	LB	BENZENE	0.4	U	0.4	UG/L
	LABQC	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	LABQC	LB	O-XYLENE	1.1	U	1.1	UG/L
	LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
	LABQC	LB	STYRENE	0.4	U	0.4	UG/L
	LABQC	LB	CHLOROMETHANE	1.3	U	1.3	UG/L
	LABQC	LB	CHLOROBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711209	SW8260A	LABQC	LB	DICHLORODIFLUOROMETHANE	-1	U	1 UGL
		LABQC	LB	CHLOROETHANE	-1	U	1 UGL
		LABQC	LB	CHLOROFORM	0.3	U	0.3 UGL
		LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		LABQC	LB	DIBROMOMETHANE	2.4	U	2.4 UGL
		LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
		LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		LABQC	LB	ETHYL BENZENE	0.6	U	0.6 UGL
		LABQC	LB	VINYL CHLORIDE	1.1	U	1.1 UGL
		LABQC	LB	TRICHLOROETHENE	-1	U	1 UGL
		LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
		LABQC	LB	1,1,2-TRICHLOROETHANE	-1	U	1 UGL
		LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		LABQC	LB	1,1-DICHLOROPROPENE	-1	U	1 UGL
		LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		LABQC	LB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
		LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
				CHLOROFORM	0.57	U	0.3 UGL
				METHYLENE CHLORIDE	1.8	U	0.3 UGL
9711222	SW8260A	AHA021TB1	TB				
		AHA021TB1	TB				

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9711222	SW8260A	AHA021TB1	TB	M,P-XYLENE	1.3	U	1.3 UGL
	AHA021TB1	TB		ISOPROPYLBENZENE	0.5	U	0.5 UGL
	AHA021TB1	TB		HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
	AHA021TB1	TB		ETHYLBENZENE	0.6	U	0.6 UGL
	AHA021TB1	TB		DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
	AHA021TB1	TB		DIBROMOMETHANE	2.4	U	2.4 UGL
	AHA021TB1	TB		CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA021TB1	TB		CHLOROBENZENE	0.4	U	0.4 UGL
	AHA021TB1	TB		CHLOROMETHANE	1.3	U	1.3 UGL
	AHA021TB1	TB		N-BUTYLBENZENE	1.1	U	1.1 UGL
	AHA021TB1	TB		CHLOROETHANE	1	U	1 UGL
	AHA021TB1	TB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
	AHA021TB1	TB		N-PROPYLBENZENE	0.4	U	0.4 UGL
	AHA021TB1	TB		NAPHTHALENE	0.4	U	0.4 UGL
	AHA021TB1	TB		O-XYLENE	1.1	U	1.1 UGL
	AHA021TB1	TB		P-ISOPROPYLTOLUENE	1.2	U	1.2 UGL
	AHA021TB1	TB		SEC-BUTYLBENZENE	1.3	U	1.3 UGL
	AHA021TB1	TB		STYRENE	0.4	U	0.4 UGL
	AHA021TB1	TB		TERT-BUTYLBENZENE	1.4	U	1.4 UGL
	AHA021TB1	TB		TETRACHLOROETHENE	1.4	U	1.4 UGL
	AHA021TB1	TB		TOLUENE	1.1	U	1.1 UGL
	AHA021TB1	TB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
	AHA021TB1	TB		TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA021TB1	TB		TRICHLOROETHENE	1	U	1 UGL
	AHA021TB1	TB		TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
	AHA021TB1	TB		CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	AHA021TB1	TB		VINYL CHLORIDE	1.1	U	1.1 UGL
	AHA021TB1	TB		1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
	AHA021TB1	TB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
	AHA021TB1	TB		1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
	AHA021TB1	TB		1,1,2-TRICHLOROETHANE	1	U	1 UGL
	AHA021TB1	TB		1,1-DICHLOROETHANE	0.4	U	0.4 UGL
	AHA021TB1	TB		1,1-DICHLOROETHENE	1.2	U	1.2 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711222	SW8260A	AHA021TB1	TB	1,1-DICHLOROPROPENE	1	U	1 UGL
	AHA021TB1	TB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
	AHA021TB1	TB		1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
	AHA021TB1	TB		1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
	AHA021TB1	TB		1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
	AHA021TB1	TB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
	AHA021TB1	TB		1,2-DIBROMOETHANE	0.6	U	0.6 UGL
	AHA021TB1	TB		1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA021TB1	TB		1,2-DICHLOROETHANE	0.6	U	0.6 UGL
	AHA021TB1	TB		BENZENE	0.4	U	0.4 UGL
	AHA021TB1	TB		DICHLORODIFLUOROMETHANE	1	U	1 UGL
	AHA021TB1	TB		BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	AHA021TB1	TB		1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA021TB1	TB		BROMOBENZENE	0.3	U	0.3 UGL
	AHA021TB1	TB		BROMOFORM	1.2	U	1.2 UGL
	AHA021TB1	TB		4-CHLOROTOLUENE	0.6	U	0.6 UGL
	AHA021TB1	TB		2-CHLOROTOLUENE	0.4	U	0.4 UGL
	AHA021TB1	TB		BROMOMETHANE	1.1	U	1.1 UGL
	AHA021TB1	TB		2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
	AHA021TB1	TB		1-CHLOROHEXANE	0.5	U	0.5 UGL
	AHA021TB1	TB		1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA021TB1	TB		1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA021TB1	TB		1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
	AHA021TB1	TB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA021TB1	TB		BROMOCHLOROMETHANE	0.4	U	0.4 UGL
	AHA022AB1	AB		METHYLENE CHLORIDE	1.4	U	0.3 UGL
	AHA022AB1	AB		M,P-XYLENE	1.3	U	1.3 UGL
	AHA022AB1	AB		ISOPROPYL BENZENE	0.5	U	0.5 UGL
	AHA022AB1	AB		HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
	AHA022AB1	AB		ETHYL BENZENE	0.6	U	0.6 UGL
	AHA022AB1	AB		DICHLORODIFLUOROMETHANE	1	U	1 UGL
	AHA022AB1	AB		DIBROMOMETHANE	2.4	U	2.4 UGL
	AHA022AB1	AB		DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711222	SW8250A	AHA022AB1	AB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA022AB1	AB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA022AB1	AB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA022AB1	AB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA022AB1	AB	CHLOROETHANE	1	U	1	UG/L
		AHA022AB1	AB	TOLUENE	1.1	U	1.1	UG/L
		AHA022AB1	AB	CHLOROFORM	0.3	U	0.3	UG/L
		AHA022AB1	AB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	OXYLENE	1.1	U	1.1	UG/L
		AHA022AB1	AB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA022AB1	AB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
		AHA022AB1	AB	STYRENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA022AB1	AB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA022AB1	AB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA022AB1	AB	TRICHLOROETHENE	1	U	1	UG/L
		AHA022AB1	AB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
		AHA022AB1	AB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		AHA022AB1	AB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	BROMOFORM	1.2	U	1.2	UG/L
		AHA022AB1	AB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA022AB1	AB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA022AB1	AB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA022AB1	AB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA022AB1	AB	1,2-DIBROMO-3-CHLOROPROPROPANE	2.6	U	2.6	UG/L
		AHA022AB1	AB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA022AB1	AB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA022AB1	AB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA022AB1	AB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA022AB1	AB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA022AB1	AB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711222	SW8260A	AHA022AB1	AB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA022AB1	AB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA022AB1	AB	1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA022AB1	AB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA022AB1	AB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA022AB1	AB	BENZENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA022AB1	AB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA022AB1	AB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA022AB1	AB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA022AB1	AB	4-CHLORTOLUENE	0.6	U	0.6	UG/L
		AHA022AB1	AB	2-CHLORTOLUENE	0.4	U	0.4	UG/L
		AHA022AB1	AB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA022AB1	AB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA022AB1	AB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA022AB1	AB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA022AB1	AB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA022AB1	AB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA022AB1	AB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA023EB1	EB	METHYLENE CHLORIDE	1.4	U	0.3	UG/L
		AHA023EB1	EB	M,P,XYLENE	1.3	U	1.3	UG/L
		AHA023EB1	EB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
		AHA023EB1	EB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA023EB1	EB	ETHYL BENZENE	0.6	U	0.6	UG/L
		AHA023EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA023EB1	EB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA023EB1	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA023EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA023EB1	EB	CIS-1,2-DICHLOROBUTENE	1.2	U	1.2	UG/L
		AHA023EB1	EB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA023EB1	EB	N-BUTYL BENZENE	1.1	U	1.1	UG/L
		AHA023EB1	EB	CHLOROETHANE	1	U	1	UG/L
		AHA023EB1	EB	TETRACHLOROETHENE	1.4	U	1.4	UG/L

SDG	Method	Field ID	QCType	Analyte		Result	LabFlag	RL Units
9711222	SW8260A	AHA023EB1	EB	CHLOROFORM		0.3	U	0.3 UGL
		AHA023EB1	EB	N-PROPYLBENZENE		0.4	U	0.4 UGL
		AHA023EB1	EB	NAPHTHALENE		0.4	U	0.4 UGL
		AHA023EB1	EB	O-XYLENE		1.1	U	1.1 UGL
		AHA023EB1	EB	P-ISOPROPYLtolUENE		1.2	U	1.2 UGL
		AHA023EB1	EB	SEC-BUTYLBENZENE		1.3	U	1.3 UGL
		AHA023EB1	EB	VINYL CHLORIDE		1.1	U	1.1 UGL
		AHA023EB1	EB	TERT-BUTYLBENZENE		1.4	U	1.4 UGL
		AHA023EB1	EB	TOLUENE		1.1	U	1.1 UGL
		AHA023EB1	EB	TRANS-1,2-DICHLOROETHENE		0.6	U	0.6 UGL
		AHA023EB1	EB	TRANS-1,3-DICHLOROPROPENE		1	U	1 UGL
		AHA023EB1	EB	TRICHLOROETHENE		1	U	1 UGL
		AHA023EB1	EB	TRICHLOROFLUOROMETHANE		0.8	U	0.8 UGL
		AHA023EB1	EB	1,2-DICHLOROBENZENE		0.3	U	0.3 UGL
		AHA023EB1	EB	CHLOROBENZENE		0.4	U	0.4 UGL
		AHA023EB1	EB	STYRENE		0.4	U	0.4 UGL
		AHA023EB1	EB	1,1-DICHLOROETHENE		1.2	U	1.2 UGL
		AHA023EB1	EB	1,2-DIBROMOETHANE		0.6	U	0.6 UGL
		AHA023EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE		2.6	U	2.6 UGL
		AHA023EB1	EB	1,2,4-TRIMETHYLBENZENE		1.3	U	1.3 UGL
		AHA023EB1	EB	1,2,4-TRICHLOROBENZENE		0.4	U	0.4 UGL
		AHA023EB1	EB	1,2,3-TRICHLOROPROPANE		3.2	U	3.2 UGL
		AHA023EB1	EB	1,2-DICHLOROETHANE		0.6	U	0.6 UGL
		AHA023EB1	EB	1,1-DICHLOROETHANE		1	U	1 UGL
		AHA023EB1	EB	1,1,2,2-TETRACHLOROETHANE		0.4	U	0.4 UGL
		AHA023EB1	EB	1,1-DICHLOROETHANE		0.4	U	0.4 UGL
		AHA023EB1	EB	1,1,2-TRICHLOROETHANE		1	U	1 UGL
		AHA023EB1	EB	1,1,1-TRICHLOROETHANE		0.8	U	0.8 UGL
		AHA023EB1	EB	CARBON TETRACHLORIDE		2.1	U	2.1 UGL
		AHA023EB1	EB	1,2-DICHLOROPROPANE		0.4	U	0.4 UGL
		AHA023EB1	EB	1,1,1,2-TETRACHLOROETHANE		0.5	U	0.5 UGL
		AHA023EB1	EB	1,2,3-TRICHLOROBENZENE		0.3	U	0.3 UGL
		AHA023EB1	EB	2-CHLOROTOLUENE		0.4	U	0.4 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
971122	SW8260A	AHA023EB1	EB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA023EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA023EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
		AHA023EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA023EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA023EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA023EB1	EB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
		AHA023EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA023EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA023EB1	EB	1,3-DICHLOROPROpane	0.4	U	0.4	UG/L
		AHA023EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA023EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA023EB1	EB	BENZENE	0.4	U	0.4	UG/L
971124	SW8260A	AHA031TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA031TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA031TB1	TB	1,3-DICHLOROPROpane	0.4	U	0.4	UG/L
		AHA031TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA031TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA031TB1	TB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		AHA031TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	BENZENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA031TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA031TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
		AHA031TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA031TB1	TB	1,2,3-TRICHLOROPROpane	3.2	U	3.2	UG/L
		AHA031TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA031TB1	TB	N-BUTYL BENZENE	1.1	U	1.1	UG/L
		AHA031TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA031TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA031TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA031TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711254	SW8260A	AHA031TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA031TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA031TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA031TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA031TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA031TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA031TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA031TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA031TB1	TB	1,2-DICHLOROPROPENE	1	U	1	UG/L
		AHA031TB1	TB	1,1-DICHLOROPROPENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA031TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA031TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
		AHA031TB1	TB	TRICHLOROETHENE	1	U	1	UG/L
		AHA031TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA031TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA031TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA031TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA031TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA031TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
		AHA031TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA031TB1	TB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA031TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA031TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA031TB1	TB	METHYLENE CHLORIDE	1.2	U	0.3	UG/L
		AHA031TB1	TB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
		AHA031TB1	TB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA031TB1	TB	ETHYL BENZENE	0.6	U	0.6	UG/L
		AHA031TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA031TB1	TB	DI-BROMOMETHANE	2.4	U	2.4	UG/L
		AHA031TB1	TB	DI-BROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA031TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711254	SW8260A	AHA031/TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA031/TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA031/TB1	TB	CHLOROFORM	0.47		0.3	UG/L
		AHA031/TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA031/TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA031/TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
		AHA031/TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA032EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA032EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA032EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA032EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA032EB1	EB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA032EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA032EB1	EB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA032EB1	EB	BENZENE	0.4	U	0.4	UG/L
		AHA032EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA032EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA032EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA032EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
		AHA032EB1	EB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA032EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA032EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA032EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA032EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA032EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA032EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA032EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA032EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA032EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA032EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA032EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA032EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA032EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711254	SW8260A	AHA032EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		AHA032EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		AHA032EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		AHA032EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA032EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA032EB1	EB	TOLUENE	1.1	U	1.1 UGL
		AHA032EB1	EB	NAPHTHALENE	0.4	U	0.4 UGL
		AHA032EB1	EB	O-XYLENE	1.1	U	1.1 UGL
		AHA032EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL
		AHA032EB1	EB	SEC-BUTYL BENZENE	1.3	U	1.3 UGL
		AHA032EB1	EB	STYRENE	0.4	U	0.4 UGL
		AHA032EB1	EB	N-PROPYLBENZENE	0.4	U	0.4 UGL
		AHA032EB1	EB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA032EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA032EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		AHA032EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA032EB1	EB	TRICHLOROETHENE	1	U	1 UGL
		AHA032EB1	EB	CHLOROETHANE	1	U	1 UGL
		AHA032EB1	EB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA032EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA032EB1	EB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
		AHA032EB1	EB	CHLORMETHANE	1.3	U	1.3 UGL
		AHA032EB1	EB	N-BUTYL BENZENE	1.1	U	1.1 UGL
		AHA032EB1	EB	CHLOROFORM	0.3	U	0.3 UGL
		AHA032EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA032EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA032EB1	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
		AHA032EB1	EB	DIBROMOMETHANE	2.4	U	2.4 UGL
		AHA032EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA032EB1	EB	HEXAChLOROBUTADIENE	1.1	U	1.1 UGL
		AHA032EB1	EB	ISOPROPYL BENZENE	0.5	U	0.5 UGL
		AHA032EB1	EB	M,P,XYLENE	1.3	U	1.3 UGL
		AHA032EB1	EB	METHYLENE CHLORIDE	1.4	U	0.3 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711254	SW8260A	AHA032EB 1	EB	ETHYLBENZENE	0.6	U	0.6 UGL
	LABQC	LB	LB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
	LABQC	LB	LB	NAPHTHALENE	0.4	U	0.4 UGL
	LABQC	LB	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
	LABQC	LB	LB	METHYLENE CHLORIDE	0.55		
	LABQC	LB	LB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
	LABQC	LB	LB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	LABQC	LB	LB	CHLOROFORM	0.3	U	0.3 UGL
	LABQC	LB	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
	LABQC	LB	LB	N-BUTYLBENZENE	1.1	U	1.1 UGL
	LABQC	LB	LB	DIBROMOMETHANE	2.4	U	2.4 UGL
	LABQC	LB	LB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
	LABQC	LB	LB	BENZENE	0.4	U	0.4 UGL
	LABQC	LB	LB	N-PROPYLBENZENE	0.4	U	0.4 UGL
	LABQC	LB	LB	TOLUENE	1.1	U	1.1 UGL
	LABQC	LB	LB	BROMOBENZENE	0.3	U	0.3 UGL
	LABQC	LB	LB	CHLOROETHANE	1	U	1 UGL
	LABQC	LB	LB	SEC-BUTYLBENZENE	1.3	U	1.3 UGL
	LABQC	LB	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
	LABQC	LB	LB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
	LABQC	LB	LB	TRICHLOROETHENE	1	U	1 UGL
	LABQC	LB	LB	ETHYLBENZENE	0.6	U	0.6 UGL
	LABQC	LB	LB	TETRACHLOROETHENE	1.4	U	1.4 UGL
	LABQC	LB	LB	CHLOROMETHANE	1.3	U	1.3 UGL
	LABQC	LB	LB	BROMOMETHANE	1.1	U	1.1 UGL
	LABQC	LB	LB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	LABQC	LB	LB	ISOPROPYLBENZENE	0.5	U	0.5 UGL
	LABQC	LB	LB	1-CHLOROHEXANE	0.5	U	0.5 UGL
	LABQC	LB	LB	P-ISOPROPYLTOLUENE	1.2	U	1.2 UGL
	LABQC	LB	LB	O-XYLENE	1.1	U	1.1 UGL
	LABQC	LB	LB	BROMOFORM	1.2	U	1.2 UGL
	LABQC	LB	LB	STYRENE	0.4	U	0.4 UGL
	LABQC	LB	LB	M,P-XYLENE	1.3	U	1.3 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711254	SW8260A	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		LABQC	LB	VINYL CHLORIDE	1.1	U	1.1 UGL
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		LABQC	LB	CHLOROBENZENE	0.4	U	0.4 UGL
		LABQC	LB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL
		LABQC	LB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		LABQC	LB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
		LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		LABQC	LB	1,1-DICHLOROPROPENE	1	U	1 UGL
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
SW9060	AHA032EB1	EB		TOTAL ORGANIC CARBON	3		1 MGL
	LABQC	LB		TOTAL ORGANIC CARBON	1	U	1 MGL
9711262	SW8260A	AHA026TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
	AHA026TB1	TB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA026TB1	TB		1,3-DICHLOROBENZENE	1.2	U	1.2 UGL

SDG	Method	FieldID	QCType	Analyte	Result	LabFlag	RL	Units
9711262	SW8260A	AHA026TB1	TB	1,3-DICHLOROPROpane	0.4	U	0.4	UG/L
		AHA026TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA026TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA026TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA026TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA026TB1	TB	2-CHLORTOLUENE	0.4	U	0.4	UG/L
		AHA026TB1	TB	BENZENE	0.4	U	0.4	UG/L
		AHA026TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA026TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA026TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA026TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA026TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA026TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA026TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA026TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA026TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA026TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA026TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA026TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA026TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA026TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA026TB1	TB	1,1,1,2-TETrACHLOROETHANE	0.5	U	0.5	UG/L
		AHA026TB1	TB	VINYL CHLORIDE	1.1	U	1	UG/L
		AHA026TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA026TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
		AHA026TB1	TB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA026TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA026TB1	TB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA026TB1	TB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA026TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA026TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
		AHA026TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA026TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711262	SW8260A	AHA026TB1	TB	METHYLENE CHLORIDE	1.4	U	0.3	UG/L
		AHA026TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA026TB1	TB	TRICHLOROETHENE	1	U	1	UG/L
		AHA026TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA026TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA026TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA026TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
		AHA026TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA026TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA026TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA026TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA026TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA026TB1	TB	CHLOROFORM	0.53	U	0.3	UG/L
		AHA026TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA026TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA026TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA026TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA026TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA026TB1	TB	ETHYL BENZENE	0.6	U	0.6	UG/L
		AHA026TB1	TB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA026TB1	TB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
		AHA026TB1	TB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA026TB1	TB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA026TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA027EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
		AHA027EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA027EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA027EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA027EB1	EB	2,2-DICHLOROPROPROPANE	3.5	U	3.5	UG/L
		AHA027EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA027EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA027EB1	EB	BENZENE	0.4	U	0.4	UG/L
		AHA027EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711262	SW8260A	AHA027EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
		AHA027EB1	EB	BROMOMETHANE	1.1	U	1.1 UGL
		AHA027EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA027EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		AHA027EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
		AHA027EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL
		AHA027EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		AHA027EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		AHA027EB1	EB	CHLOROFORM	0.3	U	0.3 UGL
		AHA027EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
		AHA027EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		AHA027EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA027EB1	EB	1,1-DICHLOROPROPENE	-	U	- UGL
		AHA027EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		AHA027EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		AHA027EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		AHA027EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		AHA027EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
		AHA027EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		AHA027EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA027EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		AHA027EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA027EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		AHA027EB1	EB	TOLUENE	1.1	U	1.1 UGL
		AHA027EB1	EB	CHLOROBENZENE	0.4	U	0.4 UGL
		AHA027EB1	EB	CHLOROETHANE	1	U	1 UGL
		AHA027EB1	EB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA027EB1	EB	TRICHLOROFUOROMETHANE	0.8	U	0.8 UGL
		AHA027EB1	EB	TRICHLOROETHENE	1	U	1 UGL
		AHA027EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		AHA027EB1	EB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA027EB1	EB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
		AHA027EB1	EB	STYRENE	0.4	U	0.4 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711262	SW8260A	AHA027EB1	EB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
	AHA027EB1	EB		P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	AHA027EB1	EB		O-XYLENE	1.1	U	1.1	UG/L
	AHA027EB1	EB		NAPHTHALENE	0.4	U	0.4	UG/L
	AHA027EB1	EB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA027EB1	EB		TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA027EB1	EB		CHLOROMETHANE	1.3	U	1.3	UG/L
	AHA027EB1	EB		N-PROPYLBENZENE	0.4	U	0.4	UG/L
	AHA027EB1	EB		CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA027EB1	EB		DBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
	AHA027EB1	EB		DBROMOMETHANE	2.4	U	2.4	UG/L
	AHA027EB1	EB		DICHLORODIFLUOROMETHANE	1	U	1	UG/L
	AHA027EB1	EB		ETHYLBENZENE	0.6	U	0.6	UG/L
	AHA027EB1	EB		HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	AHA027EB1	EB		ISOPROPYL BENZENE	0.5	U	0.5	UG/L
	AHA027EB1	EB		M-P-XYLENE	1.3	U	1.3	UG/L
	AHA027EB1	EB		METHYLENE CHLORIDE	1.9	U	0.3	UG/L
	AHA027EB1	EB		N-BUTYLBENZENE	1.1	U	1.1	UG/L
	LABQC	LB		P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	LABQC	LB		CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB		2-CHLOROTOLUENE	0.4	U	0.4	UG/L
	LABQC	LB		P-ISOPROPYL TOLUENE	0.006	U	0.006	MG/KG
	LABQC	LB		2-CHLOROTOLUENE	0.002	U	0.002	MG/KG
	LABQC	LB		STYRENE	0.4	U	0.4	UG/L
	LABQC	LB		TETRACHLOROETHENE	0.007	U	0.007	MG/KG
	LABQC	LB		CHLOROMETHANE	1.3	U	1.3	UG/L
	LABQC	LB		TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
	LABQC	LB		TERT-BUTYL BENZENE	0.007	U	0.007	MG/KG
	LABQC	LB		1-CHLOROHEXANE	0.003	U	0.003	MG/KG
	LABQC	LB		1-CHLOROHEXANE	0.5	U	0.5	UG/L
	LABQC	LB		2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
	LABQC	LB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	LABQC	LB		CIS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711262	SW8260A	LABQC	LB	STYRENE	0.002	U	0.002	MG/KG
		LABQC	LB	CHLOROFORM	0.3	U	0.3	UG/L
		LABQC	LB	CHLOROFORM	0.002	U	0.002	MG/KG
		LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		LABQC	LB	2,2-DICHLOROPROPANE	0.02	U	0.02	MG/KG
		LABQC	LB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
		LABQC	LB	SEC-BUTYLBENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	CIS-1,2-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	BROMOFORM	0.006	U	0.006	MG/KG
		LABQC	LB	BENZENE	0.4	U	0.4	UG/L
		LABQC	LB	CHLOROBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	CHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	CHLOROMETHANE	0.007	U	0.007	MG/KG
		LABQC	LB	BROMODICHLOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		LABQC	LB	DICHLORODIFLUOROMETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		LABQC	LB	METHYLENE CHLORIDE	0.55	U	0.3	UG/L
		LABQC	LB	M,P-XYLENE	0.007	U	0.007	MG/KG
		LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		LABQC	LB	BROMOFORM	1.2	U	1.2	UG/L
		LABQC	LB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
		LABQC	LB	ISOPROPYL BENZENE	0.008	U	0.008	MG/KG
		LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		LABQC	LB	CARBON TETRACHLORIDE	0.01	U	0.01	MG/KG
		LABQC	LB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
		LABQC	LB	BROMOMETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	BROMOMETHANE	1.1	U	1.1	UG/L
		LABQC	LB	ETHYLBENZENE	0.6	U	0.6	UG/L
		LABQC	LB	M,P-XYLENE	1.3	U	1.3	UG/L
		LABQC	LB	CHLOROETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		LABQC	LB	O-XYLENE	1.1	U	1.1	UG/L

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL	Units
9711262	SW8360A	LABQC	LB	OXYLENE	0.005	U	0.005	MG/KG
		LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		LABQC	LB	NAPHTHALENE	0.4	U	0.4	UG/L
		LABQC	LB	NAPHTHALENE	0.002	U	0.002	MG/KG
		LABQC	LB	BENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	DIBROMOCHLOROMETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	METHYLENE CHLORIDE	0.002	U	0.002	MG/KG
		LABQC	LB	CHLOROETHANE	1	U	1	UG/L
		LABQC	LB	4-CHLOROTOLUENE	0.003	U	0.003	MG/KG
		LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	N-PROPYLBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		LABQC	LB	N-BUTYLBENZENE	0.005	U	0.005	MG/KG
		LABQC	LB	DIBROMOMETHANE	0.01	U	0.01	MG/KG
		LABQC	LB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		LABQC	LB	BROMOCHLOROMETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	ETHYLBENZENE	0.003	U	0.003	MG/KG
		LABQC	LB	VINYL CHLORIDE	0.009	U	0.009	MG/KG
		LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003	MG/KG
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	HEXACHLOROBUTADIENE	0.005	U	0.005	MG/KG
		LABQC	LB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		LABQC	LB	TOLUENE	1.1	U	1.1	UG/L
		LABQC	LB	TOLUENE	0.005	U	0.005	MG/KG
		LABQC	LB	TRICHLOROETHENE	1	U	1	UG/L
		LABQC	LB	TRICHLOROETHENE	0.01	U	0.01	MG/KG
		LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L

SDG	Method	FieldID	QCType	Analyte	Result	LabFlag	RL	Units
9711262	SW8260A	LABQC	LB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		LABQC	LB	1,2-DIBROMOETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		LABQC	LB	1,4-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,3-DICHLOROPROPANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	0.01	U	0.01	MG/KG
		LABQC	LB	1,2-DICHLOROETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		LABQC	LB	1,1-DICHLOROETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2-DICHLOROETHANE	0.3	U	0.3	UG/L
		LABQC	LB	1,2-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2-DICHLOROBENZENE	0.6	U	0.6	UG/L
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		LABQC	LB	1,2,3-TRICHLOROPROPANE	0.02	U	0.02	MG/KG
		LABQC	LB	1,1-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		LABQC	LB	1,1-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003	MG/KG
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L

SDG	Method	Field ID	QC Type	Analyte	Result		LabFlag	RL Units
					Lab	Field		
9711262	SW8260A	LABQC	LB	1,2-DICHLOROPROpane	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,3-DICHLOROBENZENE	0.006	U	0.006	MG/KG
	LABQC	LB	LB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	LABQC	LB	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	LB	1,2-DICHLOROPROpane	0.4	U	0.4	UG/L
SW9060	AHA027EB1	EB		TOTAL ORGANIC CARBON	1	U	1	MGL
	LABQC	LB		TOTAL ORGANIC CARBON	1	U	1	MGL
9711302	SW8260A	AHA034TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
	AHA034TB1	TB		METHYLENE CHLORIDE	0.3	U	0.3	UG/L
	AHA034TB1	TB		M,P-XYLENE	1.3	U	1.3	UG/L
	AHA034TB1	TB		ISOPROPYL BENZENE	0.5	U	0.5	UG/L
	AHA034TB1	TB		HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
	AHA034TB1	TB		ETHYL BENZENE	0.6	U	0.6	UG/L
	AHA034TB1	TB		DICHLORODIFLUOROMETHANE	1	U	1	UG/L
	AHA034TB1	TB		DIbROMOMETHANE	2.4	U	2.4	UG/L
	AHA034TB1	TB		DiBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
	AHA034TB1	TB		CHLOROETHANE	1	U	1	UG/L
	AHA034TB1	TB		C1S-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA034TB1	TB		VINYL CHLORIDE	1.1	U	1.1	UG/L
	AHA034TB1	TB		CHLOROFORM	0.3	U	0.3	UG/L
	AHA034TB1	TB		N-BUTYL BENZENE	1.1	U	1.1	UG/L
	AHA034TB1	TB		C1S-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA034TB1	TB		N-PROPYL BENZENE	0.4	U	0.4	UG/L
	AHA034TB1	TB		NAPHTHALENE	0.4	U	0.4	UG/L
	AHA034TB1	TB		O-XYLENE	1.1	U	1.1	UG/L
	AHA034TB1	TB		P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	AHA034TB1	TB		SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
	AHA034TB1	TB		STYRENE	0.4	U	0.4	UG/L
	AHA034TB1	TB		TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
	AHA034TB1	TB		1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA034TB1	TB		TETRACHLOROETHENE	1.4	U	1.4	UG/L
	AHA034TB1	TB		CHLOROBENZENE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711302	SW8260A	AHA034TB1	TB	TOLUENE	1.1	U	1.1 UGL
		AHA034TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		AHA034TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA034TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA034TB1	TB	TRICHLOROETHENE	1	U	1 UGL
		AHA034TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		AHA034TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
		AHA034TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		AHA034TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		AHA034TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
		AHA034TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
		AHA034TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		AHA034TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		AHA034TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		AHA034TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		AHA034TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		AHA034TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		AHA034TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA034TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		AHA034TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA034TB1	TB	BROMOBENZENE	0.3	U	0.3 UGL
		AHA034TB1	TB	BROMOFORM	1.2	U	1.2 UGL
		AHA034TB1	TB	1,1-DICHLOROPROPENE	1	U	1 UGL
		AHA034TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		AHA034TB1	TB	BROMOMETHANE	1.1	U	1.1 UGL
		AHA034TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL
		AHA034TB1	TB	BENZENE	0.4	U	0.4 UGL
		AHA034TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
		AHA034TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		AHA034TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
		AHA034TB1	TB	1-CHLOROHEXANE	0.5	U	0.5 UGL
		AHA034TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA034TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL

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SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711302	SW8260A AHA034TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
	AHA034TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	AHA035EB1	EB	M,P,XYLENE	1.3	U	1.3 UGL
	AHA035EB1	EB	CHLOROBENZENE	0.4	U	0.4 UGL
	AHA035EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5 UGL
	AHA035EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
	AHA035EB1	EB	ETHYLBENZENE	0.6	U	0.6 UGL
	AHA035EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
	AHA035EB1	EB	DBROMOMETHANE	2.4	U	2.4 UGL
	AHA035EB1	EB	DBROMOCHLOROMETHANE	0.5	U	0.5 UGL
	AHA035EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA035EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
	AHA035EB1	EB	CHLOROMETHANE	1.3	U	1.3 UGL
	AHA035EB1	EB	CHLOROETHANE	1	U	1 UGL
	AHA035EB1	EB	METHYLENE CHLORIDE	0.79	U	0.3 UGL
	AHA035EB1	EB	CHLOROFORM	0.3	U	0.3 UGL
	AHA035EB1	EB	N-BUTYLBENZENE	1.1	U	1.1 UGL
	AHA035EB1	EB	N-PROPYLBENZENE	0.4	U	0.4 UGL
	AHA035EB1	EB	NAPHTHALENE	0.4	U	0.4 UGL
	AHA035EB1	EB	O-XYLENE	1.1	U	1.1 UGL
	AHA035EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL
	AHA035EB1	EB	SEC-BUTYL BENZENE	1.3	U	1.3 UGL
	AHA035EB1	EB	STYRENE	0.4	U	0.4 UGL
	AHA035EB1	EB	TETRACHLOROETHENE	1.4	U	1.4 UGL
	AHA035EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
	AHA035EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA035EB1	EB	TRICHLOROETHENE	1	U	1 UGL
	AHA035EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	AHA035EB1	EB	VINYL CHLORIDE	1.1	U	1.1 UGL
	AHA035EB1	EB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
	AHA035EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
	AHA035EB1	EB	1,2,3-TRICHLOROPROpane	3.2	U	3.2 UGL
	AHA035EB1	EB	BROMOMETHANE	1.1	U	1.1 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711302	SW8260A	AHA035EB1	EB	TOLUENE	1.1	U	1.1	UG/L
		AHA035EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA035EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA035EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA035EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA035EB1	EB	1,1-DICHLOROETHANE	1.2	U	1.2	UG/L
		AHA035EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA035EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA035EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA035EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA035EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA035EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA035EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA035EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA035EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA035EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA035EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA035EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
		AHA035EB1	EB	BENZENE	0.4	U	0.4	UG/L
		AHA035EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA035EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA035EB1	EB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA035EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA035EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA035EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA035EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA035EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA035EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA035EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
	LABQC	LB		BROMOMETHANE	0.005	U	0.005	MG/KG
	LABQC	LB		CHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB		N-BUTYL BENZENE	0.005	U	0.005	MG/KG
	LABQC	LB		N-BUTYL BENZENE	1.1	U	1.1	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711302	SW8260A	LABQC	LB	N-PROPYLBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	LABQC	LB	LB	CARBON TETRACHLORIDE	0.01	U	0.01	MG/KG
	LABQC	LB	LB	BROMOMETHANE	1.1	U	1.1	UG/L
	LABQC	LB	LB	NAPHTHALENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	O-XYLENE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	LABQC	LB	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	BROMOCHLOROMETHANE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	BENZENE	0.4	U	0.4	UG/L
	LABQC	LB	LB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
	LABQC	LB	LB	SEC-BUTYLBENZENE	0.007	U	0.007	MG/KG
	LABQC	LB	LB	TOLUENE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	TOLUENE	1.1	U	1.1	UG/L
	LABQC	LB	LB	BROMOBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	BROMOBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	LABQC	LB	LB	P-ISOPROPYL TOLUENE	0.006	U	0.006	MG/KG
	LABQC	LB	LB	NAPHTHALENE	0.4	U	0.4	UG/L
	LABQC	LB	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	LABQC	LB	LB	O-XYLENE	1.1	U	1.1	UG/L
	LABQC	LB	LB	VINYL CHLORIDE	0.009	U	0.009	MG/KG
	LABQC	LB	LB	BROMODICHLOROMETHANE	0.004	U	0.004	MG/KG
	LABQC	LB	LB	CHLOROBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	LB	BROMOFORM	0.006	U	0.006	MG/KG
	LABQC	LB	LB	BROMOFORM	1.2	U	1.2	UG/L
	LABQC	LB	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	LABQC	LB	LB	DIBROMOMETHANE	0.01	U	0.01	MG/KG
	LABQC	LB	LB	METHYLENE CHLORIDE	0.0066	U	0.002	MG/KG
	LABQC	LB	LB	CIS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	LB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	LABQC	LB	LB	HEXACHLOROBUTADIENE	0.005	U	0.005	MG/KG

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711302	SW8260A LABQC	LB	TETRACHLOROETHENE	0.007	U	0.007 MG/KG
	LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UG/L
	LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UG/L
	LABQC	LB	ISOPROPYLBENZENE	0.008	U	0.008 MG/KG
	LABQC	LB	DIBROMOMETHANE	2.4	U	2.4 UG/L
	LABQC	LB	ETHYL BENZENE	0.6	U	0.6 UG/L
	LABQC	LB	ETHYL BENZENE	0.003	U	0.003 MG/KG
	LABQC	LB	TRICHLOROETHENE	0.01	U	0.01 MG/KG
	LABQC	LB	TRICHLOROETHENE	1	U	1 UG/L
	LABQC	LB	DICHLORODIFLUOROMETHANE	0.005	U	0.005 MG/KG
	LABQC	LB	DICHLORODIFLUOROMETHANE	1	U	1 UG/L
	LABQC	LB	DIBROMOCHLOROMETHANE	0.003	U	0.003 MG/KG
	LABQC	LB	CHLOROMETHANE	1.3	U	1.3 UG/L
	LABQC	LB	CHLOROETHANE	1	U	1 UG/L
	LABQC	LB	METHYLENE CHLORIDE	1.1	U	0.3 UG/L
	LABQC	LB	BENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	VINYL CHLORIDE	1.1	U	1.1 UG/L
	LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4 UG/L
	LABQC	LB	CHLOROFORM	0.002	U	0.002 MG/KG
	LABQC	LB	TRICHLOROFLUOROMETHANE	0.004	U	0.004 MG/KG
	LABQC	LB	CHLOROMETHANE	0.007	U	0.007 MG/KG
	LABQC	LB	CHLOROETHANE	0.005	U	0.005 MG/KG
	LABQC	LB	M,P-XYLENE	1.3	U	1.3 UG/L
	LABQC	LB	M,P-XYLENE	0.007	U	0.007 MG/KG
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005 MG/KG
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UG/L
	LABQC	LB	CIS-1,2-DICHLOROETHENE	0.006	U	0.006 MG/KG
	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UG/L
	LABQC	LB	ISOPROPYLBENZENE	0.5	U	0.5 UG/L
	LABQC	LB	CHLOROFORM	0.3	U	0.3 UG/L
	LABQC	LB	2,2-DICHLOROPROpane	3.5	U	3.5 UG/L
	LABQC	LB	STYRENE	0.002	U	0.002 MG/KG
	LABQC	LB	STYRENE	0.4	U	0.4 UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711302	SW8280A	LABQC	LB	2-CHLOROTOLUENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	4-CHLOROTOLUENE	0.003	U	0.003	MG/KG
	LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4	UG/L	
	LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5	UG/L	
	LABQC	LB	2,2-DICHLOROPROpane	0.02	U	0.02	MG/KG	
	LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L	
	LABQC	LB	1-CHLOROHEXANE	0.003	U	0.003	MG/KG	
	LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L	
	LABQC	LB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L	
	LABQC	LB	TERT-BUTYLBENZENE	0.007	U	0.007	MG/KG	
	LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L	
	LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002	MG/KG	
	LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L	
	LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L	
	LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L	
	LABQC	LB	1,1-DICHLOROETHANE	0.002	U	0.002	MG/KG	
	LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L	
	LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L	
	LABQC	LB	1,3-DICHLOROBENZENE	0.006	U	0.006	MG/KG	
	LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	0.01	U	0.01	MG/KG	
	LABQC	LB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L	
	LABQC	LB	1,2-DICHLOROBENZENE	0.002	U	0.002	MG/KG	
	LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L	
	LABQC	LB	1,3-DICHLOROPROPANE	0.002	U	0.002	MG/KG	
	LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003	MG/KG	
	LABQC	LB	1,2-DIBROMOETHANE	0.003	U	0.003	MG/KG	
	LABQC	LB	1,1-DICHLOROPROPENE	1	U	1	UG/L	
	LABQC	LB	1,2,3-TRICHLOROPROPANE	0.02	U	0.02	MG/KG	
	LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L	
	LABQC	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002	MG/KG	
	LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L	
	LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L	
	LABQC	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005	MG/KG	

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711302	SW8260A	LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2-DICHLOROETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003	MG/KG
		LABQC	LB	1,1-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2-DICHLOROPROPANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		LABQC	LB	1,1-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	1,4-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
9711317	SW8260A	AHA037TB1	TB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA037TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA037TB1	TB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA037TB1	TB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA037TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA037TB1	TB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA037TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA037TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA037TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA037TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA037TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA037TB1	TB	METHYLENE CHLORIDE	0.3	U	0.3	UG/L
		AHA037TB1	TB	CHLOROFORM	0.3	U	0.3	UG/L
		AHA037TB1	TB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L
		AHA037TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA037TB1	TB	VINYL CHLORIDE	1.1	U	1.1	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9711317	SW8260A	AHA037TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA037TB1	TB	TRICHLOROETHENE	1	U	1	UG/L
		AHA037TB1	TB	TRANS:1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA037TB1	TB	TRANS:1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA037TB1	TB	TRICHLOROFLUROMETHANE	0.8	U	0.8	UG/L
		AHA037TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA037TB1	TB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA037TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA037TB1	TB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
		AHA037TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA037TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
		AHA037TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA037TB1	TB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA037TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA037TB1	TB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA037TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA037TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA037TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA037TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA037TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA037TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA037TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA037TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA037TB1	TB	1,2,3-TRICHLOROPROpane	3.2	U	3.2	UG/L
		AHA037TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA037TB1	TB	1,2,4-TRIMETHYL BENZENE	1.3	U	1.3	UG/L
		AHA037TB1	TB	1,2-DIBROMO-3-CHLOROPROpane	2.6	U	2.6	UG/L
		AHA037TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA037TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA037TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA037TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA037TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA037TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711317	SW8260A	AHA037TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
		AHA037TB1	TB	BROMOBENZENE	0.3	U	0.3 UGL
		AHA037TB1	TB	BENZENE	0.4	U	0.4 UGL
		AHA037TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		AHA037TB1	TB	BROMOFORM	1.2	U	1.2 UGL
		AHA037TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA037TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		AHA037TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA037TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA037TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA037TB1	TB	1-CHLOROHEXANE	0.5	U	0.5 UGL
		AHA038EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		AHA038EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA038EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA038EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		AHA038EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		AHA038EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		AHA038EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		AHA038EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		AHA038EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		AHA038EB1	EB	1,1-DICHLOROPROPENE	1	U	1 UGL
		AHA038EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA038EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		AHA038EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
		AHA038EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
		AHA038EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		AHA038EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		AHA038EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL
		AHA038EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA038EB1	EB	ETHYL BENZENE	0.6	U	0.6 UGL
		AHA038EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		AHA038EB1	EB	ISOPROPYL BENZENE	0.5	U	0.5 UGL
		AHA038EB1	EB	M,P-XYLENE	1.3	U	1.3 UGL

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SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9711317	SW8260A	AHA038EB1	EB	METHYLENE CHLORIDE	0.68	U	0.3 UGL
	AHA038EB1	EB		N-BUTYL BENZENE	1.1	U	1.1 UGL
	AHA038EB1	EB		N-PROPYLBENZENE	0.4	U	0.4 UGL
	AHA038EB1	EB		DIBROMOMETHANE	2.4	U	2.4 UGL
	AHA038EB1	EB		OXYLENE	1.1	U	1.1 UGL
	AHA038EB1	EB		TERP-BUTYL BENZENE	1.4	U	1.4 UGL
	AHA038EB1	EB		SEC-BUTYL BENZENE	1.3	U	1.3 UGL
	AHA038EB1	EB		STYRENE	0.4	U	0.4 UGL
	AHA038EB1	EB		TETRACHLOROETHENE	1.4	U	1.4 UGL
	AHA038EB1	EB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
	AHA038EB1	EB		TRANS-1,3-DICHLOROPROPENE	—	U	— UGL
	AHA038EB1	EB		TRICHLOROETHENE	1	U	1 UGL
	AHA038EB1	EB		TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
	AHA038EB1	EB		VINYL CHLORIDE	1.1	U	1.1 UGL
	AHA038EB1	EB		1,2-DICHLOROPROpane	0.4	U	0.4 UGL
	AHA038EB1	EB		NAPHTHALENE	0.4	U	0.4 UGL
	AHA038EB1	EB		2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
	AHA038EB1	EB		TOLUENE	1.1	U	1.1 UGL
	AHA038EB1	EB		DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
	AHA038EB1	EB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA038EB1	EB		1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA038EB1	EB		1-CHLOROHEXANE	0.5	U	0.5 UGL
	AHA038EB1	EB		2-CHLOROTOLUENE	0.4	U	0.4 UGL
	AHA038EB1	EB		4-CHLOROTOLUENE	0.6	U	0.6 UGL
	AHA038EB1	EB		BENZENE	0.4	U	0.4 UGL
	AHA038EB1	EB		BROMOBENZENE	0.3	U	0.3 UGL
	AHA038EB1	EB		BROMOCHLOROMETHANE	0.4	U	0.4 UGL
	AHA038EB1	EB		CHLOROMETHANE	1.3	U	1.3 UGL
	AHA038EB1	EB		CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA038EB1	EB		1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA038EB1	EB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
	AHA038EB1	EB		BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	AHA038EB1	EB		CHLOROFORM	0.3	U	0.3 UGL

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711317	SW8260A AHA038EB1	EB	CHLOROETHANE	1	U	1 UGL
	AHA038EB1	EB	BROMOFORM	1.2	U	1.2 UGL
	AHA038EB1	EB	CHLOROBENZENE	0.4	U	0.4 UGL
	AHA038EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	AHA038EB1	EB	BROMOMETHANE	1.1	U	1.1 UGL
	LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
	LABQC	LB	CIS-1,2-DICHLOROETHENE	0.006	U	0.006 MG/KG
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005 MG/KG
	LABQC	LB	2,2-DICHLOROPROPANE	0.02	U	0.02 MG/KG
	LABQC	LB	BROMOFORM	0.006	U	0.006 MG/KG
	LABQC	LB	BROMOFORM	1.2	U	1.2 UGL
	LABQC	LB	TERT-BUTYLBENZENE	1.4	U	1.4 UGL
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
	LABQC	LB	BROMODICHLOROMETHANE	0.004	U	0.004 MG/KG
	LABQC	LB	TERT-BUTYLBENZENE	0.007	U	0.007 MG/KG
	LABQC	LB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
	LABQC	LB	CHLOROMETHANE	1.3	U	1.3 UGL
	LABQC	LB	STYRENE	0.4	U	0.4 UGL
	LABQC	LB	STYRENE	0.002	U	0.002 MG/KG
	LABQC	LB	O-XYLENE	0.005	U	0.005 MG/KG
	LABQC	LB	O-XYLENE	1.1	U	1.1 UGL
	LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
	LABQC	LB	TRICHLOROFLUOROMETHANE	0.004	U	0.004 MG/KG
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	0.005	U	0.005 MG/KG
	LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL
	LABQC	LB	BROMOCHLOROMETHANE	0.002	U	0.002 MG/KG
	LABQC	LB	ISOPROPYL BENZENE	0.5	U	0.5 UGL
	LABQC	LB	N-PROPYLBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	N-BUTYL BENZENE	1.1	U	1.1 UGL
	LABQC	LB	N-BUTYL BENZENE	0.005	U	0.005 MG/KG
	LABQC	LB	CHLOROBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	CHLOROBENZENE	0.4	U	0.4 UGL

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711317	SW8260A LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1 UG/L
	LABQC	LB	CARBON TETRACHLORIDE	0.01	U	0.01 MG/KG
	LABQC	LB	2-CHLOROTOLUENE	0.002	U	0.002 MG/KG
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003 MG/KG
	LABQC	LB	VINYL CHLORIDE	1.1	U	1.1 UG/L
	LABQC	LB	VINYL CHLORIDE	0.009	U	0.009 MG/KG
	LABQC	LB	CHLOROETHANE	0.005	U	0.005 MG/KG
	LABQC	LB	CHLOROETHANE	1	U	1 UG/L
	LABQC	LB	M,P-XYLENE	0.007	U	0.007 MG/KG
	LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4 UG/L
	LABQC	LB	NAPHTHALENE	0.4	U	0.4 UG/L
	LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4 UG/L
	LABQC	LB	METHYLENE CHLORIDE	1.1	U	0.3 UG/L
	LABQC	LB	METHYLENE CHLORIDE	0.0066	U	0.002 MG/KG
	LABQC	LB	BROMOMETHANE	1.1	U	1.1 UG/L
	LABQC	LB	BROMOMETHANE	0.005	U	0.005 MG/KG
	LABQC	LB	CHLOROFORM	0.002	U	0.002 MG/KG
	LABQC	LB	CHLOROFORM	0.3	U	0.3 UG/L
	LABQC	LB	CHLOROMETHANE	0.007	U	0.007 MG/KG
	LABQC	LB	ISOPROPYLBENZENE	0.008	U	0.008 MG/KG
	LABQC	LB	M,P-XYLENE	1.3	U	1.3 UG/L
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1 UG/L
	LABQC	LB	NAPHTHALENE	0.002	U	0.002 MG/KG
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UG/L
	LABQC	LB	TOLUENE	0.005	U	0.005 MG/KG
	LABQC	LB	DIBROMOCHLOROMETHANE	0.003	U	0.003 MG/KG
	LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UG/L
	LABQC	LB	P-ISOPROPYL TOLUENE	0.006	U	0.006 MG/KG
	LABQC	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UG/L
	LABQC	LB	SEC-BUTYL BENZENE	0.007	U	0.007 MG/KG
	LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6 UG/L
	LABQC	LB	1-CHLOROHEXANE	0.003	U	0.003 MG/KG
	LABQC	LB	BENZENE	0.4	U	0.4 UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711317	SW8260A	LABQC	LB	SEC-BUTYLBENZENE	1.3	U	1.3 UG/L
	LABQC	LB	LB	DIBROMOMETHANE	0.01	U	0.01 MG/KG
	LABQC	LB	LB	BROMOBENZENE	0.3	U	0.3 UG/L
	LABQC	LB	LB	TOLUENE	1.1	U	1.1 UG/L
	LABQC	LB	LB	BROMOBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	DIBROMOMETHANE	2.4	U	2.4 UG/L
	LABQC	LB	LB	ETHYLBENZENE	0.003	U	0.003 MG/KG
	LABQC	LB	LB	ETHYLBENZENE	0.6	U	0.6 UG/L
	LABQC	LB	LB	4-CHLOROTOLUENE	0.003	U	0.003 MG/KG
	LABQC	LB	LB	BENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	TRICHLOROETHENE	1	U	1 UG/L
	LABQC	LB	LB	HEXACHLOROBUTADIENE	1.1	U	1.1 UG/L
	LABQC	LB	LB	TRICHLOROETHENE	0.01	U	0.01 MG/KG
	LABQC	LB	LB	I-CHLOROHEXANE	0.5	U	0.5 UG/L
	LABQC	LB	LB	TETRACHLOROETHENE	1.4	U	1.4 UG/L
	LABQC	LB	LB	HEXACHLOROBUTADIENE	0.005	U	0.005 MG/KG
	LABQC	LB	LB	DICHLORODIFLUOROMETHANE	0.005	U	0.005 MG/KG
	LABQC	LB	LB	DICHLORODIFLUOROMETHANE	1	U	1 UG/L
	LABQC	LB	LB	TETRACHLOROETHENE	0.007	U	0.007 MG/KG
	LABQC	LB	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UG/L
	LABQC	LB	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UG/L
	LABQC	LB	LB	1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003 MG/KG
	LABQC	LB	LB	1,3-DICHLOROBENZENE	0.006	U	0.006 MG/KG
	LABQC	LB	LB	1,2-DICHLOROPROpane	0.4	U	0.4 UG/L
	LABQC	LB	LB	1,2-DICHLOROPROpane	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UG/L
	LABQC	LB	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UG/L
	LABQC	LB	LB	1,1-DICHLOROPROPENE	1	U	1 UG/L
	LABQC	LB	LB	1,2-DIBROMOETHANE	0.003	U	0.003 MG/KG
	LABQC	LB	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UG/L
	LABQC	LB	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004 MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9711317	SW8260A	LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
	LABQC	LB	LB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
	LABQC	LB	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005 MG/KG
	LABQC	LB	LB	1,2-DIBROMO-3-CHLOROPROPANE	0.01	U	0.01 MG/KG
	LABQC	LB	LB	1,3-DICHLOROPROPANE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,1,2,4-TRIMETHYLBENZENE	0.4	U	0.4 UGL
	LABQC	LB	LB	1,2,4-TRIMETHYLBENZENE	0.007	U	0.007 MG/KG
	LABQC	LB	LB	1,1-DICHLOROETHANE	1.3	U	1.3 UGL
	LABQC	LB	LB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
	LABQC	LB	LB	1,1-DICHLOROETHANE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
	LABQC	LB	LB	1,1-DICHLOROETHENE	0.006	U	0.006 MG/KG
	LABQC	LB	LB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
	LABQC	LB	LB	1,4-DICHLOROBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
	LABQC	LB	LB	1,2-DICHLOROBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB	LB	1,2-DICHLOROBENZENE	0.003	U	0.003 MG/KG
	LABQC	LB	LB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
	LABQC	LB	LB	1,1-DICHLOROPROPENE	0.005	U	0.005 MG/KG
	LABQC	LB	LB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
	LABQC	LB	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003 MG/KG
	LABQC	LB	LB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
	LABQC	LB	LB	1,2,3-TRICHLOROPROPANE	0.02	U	0.02 MG/KG
	LABQC	LB	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
	LABQC	LB	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
SW9060	AHA038EB1	EB		TOTAL ORGANIC CARBON	1	U	1 MGL
	LABQC	LB		TOTAL ORGANIC CARBON	1	U	1 MGL
9712023	SW8260A	AHA041TB1	TB	METHYLENE CHLORIDE	0.87	U	0.3 UGL
	AHA041TB1	TB		M,P,XYLENE	1.3	U	1.3 UGL
	AHA041TB1	TB		ISOPROPYLBENZENE	0.5	U	0.5 UGL
	AHA041TB1	TB		HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
	AHA041TB1	TB		ETHYLBENZENE	0.6	U	0.6 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9712023	SW8260A	AHA041TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1 UG/L
		AHA041TB1	TB	DIBROMOMETHANE	2.4	U	2.4 UG/L
		AHA041TB1	TB	CHLOROMETHANE	1.3	U	1.3 UG/L
		AHA041TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1 UG/L
		AHA041TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UG/L
		AHA041TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UG/L
		AHA041TB1	TB	CHLOROETHANE	1	U	1 UG/L
		AHA041TB1	TB	CHLOROFORM	0.3	U	0.3 UG/L
		AHA041TB1	TB	N-BUTYLBENZENE	1.1	U	1.1 UG/L
		AHA041TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UG/L
		AHA041TB1	TB	N-PROPYLBENZENE	0.4	U	0.4 UG/L
		AHA041TB1	TB	NAPHTHALENE	0.4	U	0.4 UG/L
		AHA041TB1	TB	O-XYLENE	1.1	U	1.1 UG/L
		AHA041TB1	TB	P-ISOPROPYL-TOLUENE	1.2	U	1.2 UG/L
		AHA041TB1	TB	SEC-BUTYLBENZENE	1.3	U	1.3 UG/L
		AHA041TB1	TB	STYRENE	0.4	U	0.4 UG/L
		AHA041TB1	TB	TERT-BUTYLBENZENE	1.4	U	1.4 UG/L
		AHA041TB1	TB	TETRACHLOROETHENE	1.4	U	1.4 UG/L
		AHA041TB1	TB	TOLUENE	1.1	U	1.1 UG/L
		AHA041TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UG/L
		AHA041TB1	TB	TRICHLOROETHENE	1	U	1 UG/L
		AHA041TB1	TB	VINYL CHLORIDE	1.1	U	1.1 UG/L
		AHA041TB1	TB	CHLOROBENZENE	0.4	U	0.4 UG/L
		AHA041TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5 UG/L
		AHA041TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UG/L
		AHA041TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2 UG/L
		AHA041TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6 UG/L
		AHA041TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UG/L
		AHA041TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UG/L
		AHA041TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UG/L
		AHA041TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UG/L
		AHA041TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3 UG/L
		AHA041TB1	TB	1,1-DICHLOROPROPENE	1	U	1 UG/L

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712023	SW8260A	AHA041TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
	AHA041TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UGL
	AHA041TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UGL
	AHA041TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UGL
	AHA041TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UGL
	AHA041TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UGL
	AHA041TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UGL
	AHA041TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UGL
	AHA041TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UGL
	AHA041TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UGL
	AHA041TB1	TB	BROMOFORM	1.2	U	1.2	UGL
	AHA041TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UGL
	AHA041TB1	TB	BROMOBENZENE	0.3	U	0.3	UGL
	AHA041TB1	TB	BENZENE	0.4	U	0.4	UGL
	AHA041TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4	UGL
	AHA041TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UGL
	AHA041TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UGL
	AHA041TB1	TB	1,3-DICHLOROPROpane	0.4	U	0.4	UGL
	AHA041TB1	TB	1,2-DICHLOROBENZENE	1.2	U	1.2	UGL
	AHA041TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UGL
	AHA041TB1	TB	BROMOMETHANE	1.1	U	1.1	UGL
	AHA041TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UGL
	AHA042EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UGL
	AHA042EB1	EB	METHYLENE CHLORIDE	0.9	U	0.9	UGL
	AHA042EB1	EB	M,P-XYLENE	1.3	U	1.3	UGL
	AHA042EB1	EB	ISOPROPYL BENZENE	0.5	U	0.5	UGL
	AHA042EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1	UGL
	AHA042EB1	EB	ETHYL BENZENE	0.6	U	0.6	UGL
	AHA042EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UGL
	AHA042EB1	EB	DIBROMOMETHANE	2.4	U	2.4	UGL
	AHA042EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UGL
	AHA042EB1	EB	CHLOROETHANE	1	U	1	UGL
	AHA042EB1	EB	CHLOROMETHANE	1.3	U	1.3	UGL

SDG	Method Field ID	QCType	Analyte	Result LabFlag	RL Units
9710203	SW8260A	AHA042EB1	N-BUTYLBENZENE	1.1	U 1.1 UG/L
		AHA042EB1	TETRACHLOROETHENE	1.4	U 1.4 UG/L
		AHA042EB1	CHLOROFORM	0.3	U 0.3 UG/L
		AHA042EB1	DIBROMOCHLOROMETHANE	0.5	U 0.5 UG/L
		AHA042EB1	N-PROPYLBENZENE	0.4	U 0.4 UG/L
		AHA042EB1	NAPHTHALENE	0.4	U 0.4 UG/L
		AHA042EB1	O-XYLENE	1.1	U 1.1 UG/L
		AHA042EB1	P-ISOPROPYLTOLUENE	1.2	U 1.2 UG/L
		AHA042EB1	SEC-BUTYLBENZENE	1.3	U 1.3 UG/L
		AHA042EB1	VINYL CHLORIDE	1.1	U 1.1 UG/L
		AHA042EB1	TERT-BUTYLBENZENE	1.4	U 1.4 UG/L
		AHA042EB1	TOLUENE	1.1	U 1.1 UG/L
		AHA042EB1	TRANS-1,2-DICHLOROETHENE	0.6	U 0.6 UG/L
		AHA042EB1	TRANS-1,3-DICHLOROPROPENE	1	U 1 UG/L
		AHA042EB1	TRICHLOROETHENE	1	U 1 UG/L
		AHA042EB1	TRICHLOROFLUOROMETHANE	0.8	U 0.8 UG/L
		AHA042EB1	CHLOROBENZENE	0.4	U 0.4 UG/L
		AHA042EB1	2,2-DICHLOROPROpane	3.5	U 3.5 UG/L
		AHA042EB1	STYRENE	0.4	U 0.4 UG/L
		AHA042EB1	1,2,4-TRICHLOROBENZENE	0.4	U 0.4 UG/L
		AHA042EB1	4-CHLORTOLUENE	0.6	U 0.6 UG/L
		AHA042EB1	1,1,2,2-TETRACHLOROETHANE	0.4	U 0.4 UG/L
		AHA042EB1	1,1,2-TRICHLOROETHANE	1	U 1 UG/L
		AHA042EB1	1,1-DICHLOROETHANE	0.4	U 0.4 UG/L
		AHA042EB1	1,1-DICHLOROETHENE	1.2	U 1.2 UG/L
		AHA042EB1	1,1-DICHLOROPROPENE	1	U 1 UG/L
		AHA042EB1	1,2,3-TRICHLOROPROPANE	3.2	U 3.2 UG/L
		AHA042EB1	1,1,1-TRICHLOROETHANE	0.8	U 0.8 UG/L
		AHA042EB1	1,2,4-TRIMETHYLBENZENE	1.3	U 1.3 UG/L
		AHA042EB1	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U 2.6 UG/L
		AHA042EB1	1,2-DIBROMOETHANE	0.6	U 0.6 UG/L
		AHA042EB1	1,2-DICHLOROBENZENE	0.3	U 0.3 UG/L
		AHA042EB1	1,2-DICHLOROETHANE	0.6	U 0.6 UG/L

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9712023	SW8260A	AHA042EB1	EB	1,2-DICHLOROPROpane	0.4	U	0.4 UGL
	AHA042EB1	EB		BENZENE	0.4	U	0.4 UGL
	AHA042EB1	EB		BROMOMETHANE	1.1	U	1.1 UGL
	AHA042EB1	EB		1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
	AHA042EB1	EB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA042EB1	EB		BROMODICHLOROMETHANE	0.8	U	0.8 UGL
	AHA042EB1	EB		BROMOBENZENE	0.3	U	0.3 UGL
	AHA042EB1	EB		BROMOFORM	1.2	U	1.2 UGL
	AHA042EB1	EB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
	AHA042EB1	EB		2-CHLOROTOLUENE	0.4	U	0.4 UGL
	AHA042EB1	EB		CARBON TETRACHLORIDE	2.1	U	2.1 UGL
	AHA042EB1	EB		1-CHLOROHEXANE	0.5	U	0.5 UGL
	AHA042EB1	EB		1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA042EB1	EB		1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA042EB1	EB		1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
	AHA042EB1	EB		BROMOCHLOROMETHANE	0.4	U	0.4 UGL
	LABQC	LB		CHLOROBENZENE	0.002	U	0.002 MG/KG
	LABQC	LB		TOLUENE	0.005	U	0.005 MG/KG
	LABQC	LB		CHLOROFORM	0.002	U	0.002 MG/KG
	LABQC	LB		BENZENE	0.002	U	0.002 MG/KG
	LABQC	LB		2,2-DICHLOROPROPANE	0.02	U	0.02 MG/KG
	LABQC	LB		ISOPROPYLBENZENE	0.008	U	0.008 MG/KG
	LABQC	LB		M.P.XYLENE	0.007	U	0.007 MG/KG
	LABQC	LB		DICHLORODIFLUOROMETHANE	0.005	U	0.005 MG/KG
	LABQC	LB		N-BUTYLBENZENE	0.005	U	0.005 MG/KG
	LABQC	LB		CHLOROMETHANE	0.007	U	0.007 MG/KG
	LABQC	LB		2-CHLOROTOLUENE	0.002	U	0.002 MG/KG
	LABQC	LB		CHLOROETHANE	0.005	U	0.005 MG/KG
	LABQC	LB		TETRACHLOROETHENE	0.007	U	0.007 MG/KG
	LABQC	LB		TRICHLOROETHENE	0.01	U	0.01 MG/KG
	LABQC	LB		BROMOMETHANE	0.005	U	0.005 MG/KG
	LABQC	LB		METHYLENE CHLORIDE	0.0025	U	0.002 MG/KG
	LABQC	LB		N-PROPYLBENZENE	0.002	U	0.002 MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712023	SW8260A	LABQC	LB	4-CHLOROTOLUENE	0.003	U	0.003	MG/KG
		LABQC	LB	ETHYLBENZENE	0.003	U	0.003	MG/KG
		LABQC	LB	BROMOFORM	0.006	U	0.006	MG/KG
		LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003	MG/KG
		LABQC	LB	SEC-BUTYLBENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	VINYL CHLORIDE	0.009	U	0.009	MG/KG
		LABQC	LB	CARBON TETRACHLORIDE	0.01	U	0.01	MG/KG
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	P-ISOPROPYL TOLUENE	0.006	U	0.006	MG/KG
		LABQC	LB	DIBROMOCHLOROMETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	BROMODICHLOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	O-XYLENE	0.005	U	0.005	MG/KG
		LABQC	LB	CIS-1,2-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	STYRENE	0.002	U	0.002	MG/KG
		LABQC	LB	1-CHLOROHEXANE	0.003	U	0.003	MG/KG
		LABQC	LB	DIBROMOMETHANE	0.01	U	0.01	MG/KG
		LABQC	LB	BROMOBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOCHLOROMETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	HEXA CHLOROBUTADIENE	0.005	U	0.005	MG/KG
		LABQC	LB	NAPHTHALENE	0.002	U	0.002	MG/KG
		LABQC	LB	CIS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	TERT-BUTYL BENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	0.01	U	0.01	MG/KG
		LABQC	LB	1,1-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	1,2,4-TRIMETHYL BENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	1,4-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1-DICHLOROETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	1,2,3-TRICHLOROPROPANE	0.02	U	0.02	MG/KG
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002	MG/KG

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9712023	SW8260A	LABQC	LB	1,2-DICHLOROPROpane	0.002	U	0.002 MG/KG
		LABQC	LB	1,2-DIBROMOETHANE	0.003	U	0.003 MG/KG
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002 MG/KG
		LABQC	LB	1,3-DICHLOROBENZENE	0.006	U	0.006 MG/KG
		LABQC	LB	1,3-DICHLOROPROPANE	0.002	U	0.002 MG/KG
		LABQC	LB	1,2-DICHLOROETHANE	0.003	U	0.003 MG/KG
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003 MG/KG
		LABQC	LB	1,2-DICHLOROBENZENE	0.002	U	0.002 MG/KG
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003 MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004 MG/KG
9712095	SW8260A	AHA044TB1	TB	M,P-XYLENE	1.3	U	1.3 UGL
		AHA044TB1	TB	DI(BROMOMETHANE	2.4	U	2.4 UGL
		AHA044TB1	TB	ISOPROPYL BENZENE	0.5	U	0.5 UGL
		AHA044TB1	TB	HEXA(Chloro)BUTADIENE	1.1	U	1.1 UGL
		AHA044TB1	TB	ETHYL BENZENE	0.6	U	0.6 UGL
		AHA044TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA044TB1	TB	DI(BROMO)CHLOROMETHANE	0.5	U	0.5 UGL
		AHA044TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA044TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA044TB1	TB	CHLOROMETHANE	1.3	U	1.3 UGL
		AHA044TB1	TB	CHLOROFORM	0.3	U	0.3 UGL
		AHA044TB1	TB	CHLOROBENZENE	0.4	U	0.4 UGL
		AHA044TB1	TB	METHYLENE CHLORIDE	0.86	U	0.3 UGL
		AHA044TB1	TB	CHLOROETHANE	1	U	1 UGL
		AHA044TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
		AHA044TB1	TB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA044TB1	TB	BROMOFORM	1.2	U	1.2 UGL
		AHA044TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA044TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA044TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		AHA044TB1	TB	TRICHLOROETHENE	1	U	1 UGL
		AHA044TB1	TB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA044TB1	TB	N-BUTYL BENZENE	1.1	U	1.1 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712095	SW8260A	AHA044TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA044TB1	TB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
		AHA044TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA044TB1	TB	OXYLENE	1.1	U	1.1	UG/L
		AHA044TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA044TB1	TB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA044TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA044TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA044TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA044TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA044TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA044TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA044TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA044TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA044TB1	TB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA044TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA044TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA044TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA044TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA044TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA044TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA044TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA044TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA044TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA044TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA044TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA044TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA044TB1	TB	BENZENE	0.4	U	0.4	UG/L
		AHA044TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA044TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA044TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA044TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA044TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9712095	SW8260A	AHA044TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA044TB1	TB		1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
	AHA044TB1	TB		1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA044TB1	TB		1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
	AHA045EB1	EB		CHLOROFORM	0.3	U	0.3 UGL
	AHA045EB1	EB		N-BUTYL BENZENE	1.1	U	1.1 UGL
	AHA045EB1	EB		METHYLENE CHLORIDE	0.8	U	0.3 UGL
	AHA045EB1	EB		M,P-XYLENE	1.3	U	1.3 UGL
	AHA045EB1	EB		HEXAACHLOROBUTADIENE	1.1	U	1.1 UGL
	AHA045EB1	EB		DICHLORODIFLUOROMETHANE	1	U	1 UGL
	AHA045EB1	EB		DI(BROMOMETHANE	2.4	U	2.4 UGL
	AHA045EB1	EB		DI(BROMOCHLOROMETHANE	0.5	U	0.5 UGL
	AHA045EB1	EB		CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA045EB1	EB		CHLOROBENZENE	0.4	U	0.4 UGL
	AHA045EB1	EB		CHLOROMETHANE	1.3	U	1.3 UGL
	AHA045EB1	EB		N-PROPYLBENZENE	0.4	U	0.4 UGL
	AHA045EB1	EB		CHLOROETHANE	1	U	1 UGL
	AHA045EB1	EB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
	AHA045EB1	EB		NAPHTHALENE	0.4	U	0.4 UGL
	AHA045EB1	EB		O-XYLENE	1.1	U	1.1 UGL
	AHA045EB1	EB		P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL
	AHA045EB1	EB		SEC-BUTYL BENZENE	1.3	U	1.3 UGL
	AHA045EB1	EB		STYRENE	0.4	U	0.4 UGL
	AHA045EB1	EB		TERT-BUTYL BENZENE	1.4	U	1.4 UGL
	AHA045EB1	EB		TETRACHLOROETHENE	1.4	U	1.4 UGL
	AHA045EB1	EB		TOLUENE	1.1	U	1.1 UGL
	AHA045EB1	EB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
	AHA045EB1	EB		TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
	AHA045EB1	EB		TRICHLOROETHENE	1	U	1 UGL
	AHA045EB1	EB		TRICHLOROFUOROMETHANE	0.8	U	0.8 UGL
	AHA045EB1	EB		VINYL CHLORIDE	1.1	U	1.1 UGL
	AHA045EB1	EB		ETHYL BENZENE	0.6	U	0.6 UGL
	AHA045EB1	EB		CARBON TETRACHLORIDE	2.1	U	2.1 UGL

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712095	SW8260A AHA045EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	AHA045EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	AHA045EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
	AHA045EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
	AHA045EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA045EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
	AHA045EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA045EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
	AHA045EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
	AHA045EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
	AHA045EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
	AHA045EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
	AHA045EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA045EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
	AHA045EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
	AHA045EB1	EB	BENZENE	0.4	U	0.4	UG/L
	AHA045EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
	AHA045EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	AHA045EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
	AHA045EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
	AHA045EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
	AHA045EB1	EB	4-CHLORTOLUENE	0.6	U	0.6	UG/L
	AHA045EB1	EB	2-CHLORTOLUENE	0.4	U	0.4	UG/L
	AHA045EB1	EB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
	AHA045EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
	AHA045EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA045EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	AHA045EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
	AHA045EB1	EB	BROMOMETHANE	1.1	U	1.1	UG/L
	AHA045EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	AHA045EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	LABQC	LB	VINYL CHLORIDE	0.009	U	0.009	MG/KG
	LABQC	LB	ISOPROPYL BENZENE	0.008	U	0.008	MG/KG

SDG	Method FieldID	QCType	Analyte	Result	LabFlag	RL	Units
9712095	SW8260A LABQC	LB	N-BUTYLBENZENE	0.005	U	0.005	MG/KG
	LABQC	LB	CHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
	LABQC	LB	TRICHLOROETHENE	0.01	U	0.01	MG/KG
	LABQC	LB	DICHLORODIFLUROMETHANE	1	U	1	UG/L
	LABQC	LB	1-CHLOROHEXANE	0.003	U	0.003	MG/KG
	LABQC	LB	TRICHLOROFLUROMETHANE	0.004	U	0.004	MG/KG
	LABQC	LB	CHLOROBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	VINYL CHLORIDE	1.1	U	1.1	UG/L
	LABQC	LB	DICHLORODIFLUROMETHANE	0.005	U	0.005	MG/KG
	LABQC	LB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	LABQC	LB	HEXACHLOROBUTADIENE	0.005	U	0.005	MG/KG
	LABQC	LB	CHLOROETHANE	1	U	1	UG/L
	LABQC	LB	4-CHLORTOLUENE	0.6	U	0.6	UG/L
	LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	CHLOROMETHANE	1.3	U	1.3	UG/L
	LABQC	LB	ETHYLBENZENE	0.6	U	0.6	UG/L
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	TERT-BUTYLBENZENE	0.007	U	0.007	MG/KG
	LABQC	LB	M,P-XYLENE	1.3	U	1.3	UG/L
	LABQC	LB	CHLOROMETHANE	0.007	U	0.007	MG/KG
	LABQC	LB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L
	LABQC	LB	DBROMOMETHANE	2.4	U	2.4	UG/L
	LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
	LABQC	LB	TETRACHLOROETHENE	0.007	U	0.007	MG/KG
	LABQC	LB	DBROMOMETHANE	0.01	U	0.01	MG/KG
	LABQC	LB	CHLOROFORM	0.3	U	0.3	UG/L
	LABQC	LB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
	LABQC	LB	CHLOROETHANE	0.005	U	0.005	MG/KG
	LABQC	LB	TRICHLOROFUROMETHANE	0.8	U	0.8	UG/L
	LABQC	LB	CIS-1,2-DICHLOROETHENE	0.006	U	0.006	MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712095	SW8260A	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		LABQC	LB	2,2-DICHLOROPROPANE	0.02	U	0.02	MG/KG
		LABQC	LB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		LABQC	LB	TRICHLOROETHENE	1	U	1	UG/L
		LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		LABQC	LB	METHYLENE CHLORIDE	0.0025		0.002	MG/KG
		LABQC	LB	METHYLENE CHLORIDE	0.4		0.3	UG/L
		LABQC	LB	ETHYL BENZENE	0.003		0.003	MG/KG
		LABQC	LB	DIBROMOCHLOROMETHANE	0.003		0.003	MG/KG
		LABQC	LB	M,P,XYLENE	0.007	U	0.007	MG/KG
		LABQC	LB	CHLOROFORM	0.002	U	0.002	MG/KG
		LABQC	LB	O-XYLENE	1.1	U	1.1	UG/L
		LABQC	LB	N-PROPYLBENZENE	0.4		0.4	UG/L
		LABQC	LB	BROMOMETHANE	1.1	U	1.1	UG/L
		LABQC	LB	BROMOMETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	2-CHLORTOLUENE	0.002	U	0.002	MG/KG
		LABQC	LB	2-CHLORTOLUENE	0.4		0.4	UG/L
		LABQC	LB	BROMOFORM	1.2	U	1.2	UG/L
		LABQC	LB	BROMOFORM	0.006	U	0.006	MG/KG
		LABQC	LB	NAPHTHALENE	0.002	U	0.002	MG/KG
		LABQC	LB	NAPHTHALENE	0.4		0.4	UG/L
		LABQC	LB	STYRENE	0.4		0.4	UG/L
		LABQC	LB	N-BUTYL BENZENE	1.1		1.1	UG/L
		LABQC	LB	BROMODICHLOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	N-PROPYLBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	O-XYLENE	0.005	U	0.005	MG/KG
		LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		LABQC	LB	BROMOCHLOROMETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	BROMOBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	TOLUENE	1.1	U	1.1	UG/L
		LABQC	LB	TOLUENE	0.005	U	0.005	MG/KG

SDG	Method Field ID	actType	Analyte	Result	LabFlag	RL	Units
9712095	SW8260A	LABQC	LB P-ISOPROPYL TOLUENE	0.006	U	0.006	MG/KG
	LABQC	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UGL
	LABQC	LB	BENZENE	0.4	U	0.4	UGL
	LABQC	LB	BENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	SEC-BUTYL BENZENE	0.007	U	0.007	MG/KG
	LABQC	LB	SEC-BUTYL BENZENE	1.3	U	1.3	UGL
	LABQC	LB	4-CHLOROTOLUENE	0.003	U	0.003	MG/KG
	LABQC	LB	STYRENE	0.002	U	0.002	MG/KG
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UGL
	LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1	UGL
	LABQC	LB	CARBON TETRACHLORIDE	0.01	U	0.01	MG/KG
	LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003	MG/KG
	LABQC	LB	1,2-DICHLOROETHANE	0.003	U	0.003	MG/KG
	LABQC	LB	1,2-DICHLOROPROpane	0.002	U	0.002	MG/KG
	LABQC	LB	1,2-DIBROMOETHANE	0.003	U	0.003	MG/KG
	LABQC	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004	MG/KG
	LABQC	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UGL
	LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UGL
	LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4	UGL
	LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6	UGL
	LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002	MG/KG
	LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UGL
	LABQC	LB	1,2,4-TRIMETHYL BENZENE	0.007	U	0.007	MG/KG
	LABQC	LB	1,1-DICHLOROETHANE	0.002	U	0.002	MG/KG
	LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UGL
	LABQC	LB	1,1-DICHLOROPROPENE	1	U	1	UGL
	LABQC	LB	1,1-DICHLOROPROPENE	0.005	U	0.005	MG/KG
	LABQC	LB	1,2-DICHLOROBENZENE	1.2	U	1.2	UGL
	LABQC	LB	1,3-DICHLOROBENZENE	0.006	U	0.006	MG/KG
	LABQC	LB	1,3-DICHLOROPROPANE	0.002	U	0.002	MG/KG
	LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003	MG/KG
	LABQC	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002	MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712095	SW8260A	LABQC	LB	1,2,3-TRICHLOROPROpane	0.02	U	0.02	MG/KG
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,2,3-TRICHLOROPROpane	3.2	U	3.2	UG/L
		LABQC	LB	1,1-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	1,4-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003	MG/KG
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		LABQC	LB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		LABQC	LB	1,2-DICHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005	MG/KG
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	0.01	U	0.01	MG/KG
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
9712123	SW8260A	AHA047TBI	TB	METHYLENE CHLORIDE	0.53	U	0.3	UG/L
		AHA047TBI	TB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA047TBI	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA047TBI	TB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA047TBI	TB	ETHYL BENZENE	0.6	U	0.6	UG/L
		AHA047TBI	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA047TBI	TB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA047TBI	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA047TBI	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA047TBI	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA047TBI	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA047TBI	TB	N-BUTYL BENZENE	1.1	U	1.1	UG/L
		AHA047TBI	TB	CHLOROETHANE	1	U	1	UG/L
		AHA047TBI	TB	TOLUENE	1.1	U	1.1	UG/L

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SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9712123	SW8260A	AHA047TB1	TB	CHLOROFORM	0.3	U	0.3 UG/L
		AHA047TB1	TB	N-PROPYLBENZENE	0.4	U	0.4 UG/L
		AHA047TB1	TB	NAPHTHALENE	0.4	U	0.4 UG/L
		AHA047TB1	TB	O-XYLENE	1.1	U	1.1 UG/L
		AHA047TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UG/L
		AHA047TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3 UG/L
		AHA047TB1	TB	STYRENE	0.4	U	0.4 UG/L
		AHA047TB1	TB	TETRA CHLOROETHENE	1.4	U	1.4 UG/L
		AHA047TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UG/L
		AHA047TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UG/L
		AHA047TB1	TB	TRICHLOROETHENE	1	U	1 UG/L
		AHA047TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UG/L
		AHA047TB1	TB	VINYL CHLORIDE	1.1	U	1.1 UG/L
		AHA047TB1	TB	CHLOROBENZENE	0.4	U	0.4 UG/L
		AHA047TB1	TB	BROMOFORM	1.2	U	1.2 UG/L
		AHA047TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4 UG/L
		AHA047TB1	TB	1,1-DICHLOROPROPENE	1	U	1 UG/L
		AHA047TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3 UG/L
		AHA047TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6 UG/L
		AHA047TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UG/L
		AHA047TB1	TB	1,2,4-TRIMETHYL BENZENE	1.3	U	1.3 UG/L
		AHA047TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UG/L
		AHA047TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6 UG/L
		AHA047TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UG/L
		AHA047TB1	TB	1,1,2,2-TETRA CHLOROETHANE	0.4	U	0.4 UG/L
		AHA047TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2 UG/L
		AHA047TB1	TB	1,1,2-TRICHLOROETHANE	0.4	U	0.4 UG/L
		AHA047TB1	TB	1,1,1-TRICHLOROETHANE	1	U	1 UG/L
		AHA047TB1	TB	CARBON TETRACHLORIDE	0.8	U	0.8 UG/L
		AHA047TB1	TB	1,1,1,2-TETRA CHLOROETHANE	2.1	U	2.1 UG/L
		AHA047TB1	TB	1,2,3-TRICHLOROPROPANE	0.5	U	0.5 UG/L
		AHA047TB1	TB	4-CHLOROTOLUENE	3.2	U	3.2 UG/L
		AHA047TB1	TB		0.6	U	0.6 UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712123	SW8260A	AHA047TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA047TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA047TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA047TB1	TB	BENZENE	0.4	U	0.4	UG/L
		AHA047TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA047TB1	TB	2-CHLORTOLUENE	0.4	U	0.4	UG/L
		AHA047TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA047TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA047TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA047TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA047TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA047TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA047TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA048EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA048EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA048EB1	EB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA048EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA048EB1	EB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA048EB1	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA048EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA048EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA048EB1	EB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA048EB1	EB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA048EB1	EB	CHLOROETHANE	1	U	1	UG/L
		AHA048EB1	EB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L
		AHA048EB1	EB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA048EB1	EB	CHLOROFORM	0.3	U	0.3	UG/L
		AHA048EB1	EB	METHYLENE CHLORIDE	0.55	U	0.3	UG/L
		AHA048EB1	EB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA048EB1	EB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA048EB1	EB	VINYL CHLORIDE	1	U	1.1	UG/L
		AHA048EB1	EB	O-XYLENE	1.1	U	1.1	UG/L
		AHA048EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L

SDG	Method	Field ID	QCType	Analyte		Result	LabFlag	RL Units
9712123	SW8260A	AHA048EB	EB	STYRENE		0.4	U	0.4 UGL
	AHA048EB	EB		TETRACHLOROETHENE		1.4	U	1.4 UGL
	AHA048EB	EB		TOLUENE		1.1	U	1.1 UGL
	AHA048EB	EB		TRANS-1,2-DICHLOROETHENE	0.6	U	U	0.6 UGL
	AHA048EB	EB		TRANS-1,3-DICHLOROPROPENE	1	U	U	1 UGL
	AHA048EB	EB		TRICHLOROETHENE	1	U	U	1 UGL
	AHA048EB	EB		NAPHTHALENE	0.4	U	U	0.4 UGL
	AHA048EB	EB		CARBON TETRACHLORIDE	2.1	U	U	2.1 UGL
	AHA048EB	EB		SEC-BUTYLBENZENE	1.3	U	U	1.3 UGL
	AHA048EB	EB		1,2-DICHLOROBENZENE	0.3	U	U	0.3 UGL
	AHA048EB	EB		P-ISOPROPYL TOLUENE	1.2	U	U	1.2 UGL
	AHA048EB	EB		BROMOMETHANE	1.1	U	U	1.1 UGL
	AHA048EB	EB		1,1,1,2-TETRACHLOROETHANE	0.5	U	U	0.5 UGL
	AHA048EB	EB		1,1,1-TRICHLOROETHANE	0.8	U	U	0.8 UGL
	AHA048EB	EB		1,1,2,2-TETRACHLOROETHANE	0.4	U	U	0.4 UGL
	AHA048EB	EB		1,1,2-TRICHLOROETHANE	1	U	U	1 UGL
	AHA048EB	EB		1,1-DICHLOROETHANE	0.4	U	U	0.4 UGL
	AHA048EB	EB		1,1-DICHLOROETHENE	1.2	U	U	1.2 UGL
	AHA048EB	EB		1,1-DICHLOROPROPENE	1	U	U	1 UGL
	AHA048EB	EB		1,2,3-TRICHLOROBENZENE	0.3	U	U	0.3 UGL
	AHA048EB	EB		1,2,3-TRICHLOROPROPANE	3.2	U	U	3.2 UGL
	AHA048EB	EB		1,2,4-TRICHLOROBENZENE	0.4	U	U	0.4 UGL
	AHA048EB	EB		1,2,4-TRIMETHYLBENZENE	1.3	U	U	1.3 UGL
	AHA048EB	EB		1,2-DIBROMOETHANE	0.6	U	U	0.6 UGL
	AHA048EB	EB		2,2-DICHLOROPROPROPANE	3.5	U	U	3.5 UGL
	AHA048EB	EB		BROMOFORM	1.2	U	U	1.2 UGL
	AHA048EB	EB		BROMODICHLOROMETHANE	0.8	U	U	0.8 UGL
	AHA048EB	EB		BROMOCHLOROMETHANE	0.4	U	U	0.4 UGL
	AHA048EB	EB		BROMOBENZENE	0.3	U	U	0.3 UGL
	AHA048EB	EB		BENZENE	0.4	U	U	0.4 UGL
	AHA048EB	EB		1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	U	2.6 UGL
	AHA048EB	EB		2-CHLOROTOLUENE	0.4	U	U	0.4 UGL
	AHA048EB	EB		1,2-DICHLOROETHANE	0.6	U	U	0.6 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712123	SW8260A	AHA048EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA048EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA048EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA048EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA048EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA048EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA048EB1	EB	4-CHLORTOLUENE	0.6	U	0.6	UG/L
		LABQC	LB	CIS-1,2-DICHLOROETHENE	0.006	U	0.006	MG/KG
		LABQC	LB	DIBROMOCHLOROMETHANE	0.003	U	0.003	MG/KG
		LABQC	LB	CHLOROBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	TOLUENE	0.005	U	0.005	MG/KG
		LABQC	LB	HEXACHLOROBUTADIENE	0.005	U	0.005	MG/KG
		LABQC	LB	NAPHTHALENE	0.002	U	0.002	MG/KG
		LABQC	LB	BROMOFORM	0.006	U	0.006	MG/KG
		LABQC	LB	P-ISOPROPYL TOLUENE	0.006	U	0.006	MG/KG
		LABQC	LB	I-CHLOROHEXANE	0.003	U	0.003	MG/KG
		LABQC	LB	CARBON TETRACHLORIDE	0.01	U	0.01	MG/KG
		LABQC	LB	VINYL CHLORIDE	0.009	U	0.009	MG/KG
		LABQC	LB	M,P-XYLENE	0.007	U	0.007	MG/KG
		LABQC	LB	BROMOBENZENE	0.002	U	0.002	MG/KG
		LABQC	LB	CHLOROFORM	0.002	U	0.002	MG/KG
		LABQC	LB	STYRENE	0.002	U	0.002	MG/KG
		LABQC	LB	2-CHLORTOLUENE	0.002	U	0.002	MG/KG
		LABQC	LB	CIS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	CHLOROMETHANE	0.007	U	0.007	MG/KG
		LABQC	LB	BROMOCHLOROMETHANE	0.002	U	0.002	MG/KG
		LABQC	LB	O-XYLENE	0.005	U	0.005	MG/KG
		LABQC	LB	TRICHLOROFLUOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	0.005	U	0.005	MG/KG
		LABQC	LB	ISOPROPYL BENZENE	0.008	U	0.008	MG/KG
		LABQC	LB	BROMODICHLOROMETHANE	0.004	U	0.004	MG/KG
		LABQC	LB	TERT-BUTYL BENZENE	0.007	U	0.007	MG/KG
		LABQC	LB	DIBROMOMETHANE	0.01	U	0.01	MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712123	SW8260A	LABQC	LB	TRICHLOROETHENE	0.01	U	0.01	MG/KG
	LABQC	LB	LB	2,2-DICHLOROPROpane	0.02	U	0.02	MG/KG
	LABQC	LB	LB	SEC-BUTYLBENZENE	0.007	U	0.007	MG/KG
	LABQC	LB	LB	DICHLORODIFLUOROMETHANE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	ETHYLBENZENE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	TRANS-1,2-DICHLOROETHENE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	4-CHLOROTOLUENE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	BENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	TETRACHLOROETHENE	0.007	U	0.007	MG/KG
	LABQC	LB	LB	METHYLENE CHLORIDE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	N-PROPYLBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	CHLOROETHANE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	BROMOMETHANE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	N-BUTYLBENZENE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	1,2-DICHLOROETHANE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	1,2,3-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,1,2-TRICHLOROETHANE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	1,3-DICHLOROPROpane	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,1-DICHLOROPROPENE	0.005	U	0.005	MG/KG
	LABQC	LB	LB	1,2,4-TRICHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,2-DIBROMO-3-CHLOROPROpane	0.01	U	0.01	MG/KG
	LABQC	LB	LB	1,4-DICHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,3,5-TRIMETHYLBENZENE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	1,3-DICHLOROBENZENE	0.006	U	0.006	MG/KG
	LABQC	LB	LB	1,2,4-TRIMETHYLBENZENE	0.007	U	0.007	MG/KG
	LABQC	LB	LB	1,1,2,2-TETRACHLOROETHANE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,1,1,2-TETRACHLOROETHANE	0.003	U	0.003	MG/KG
	LABQC	LB	LB	1,2-DICHLOROPROPANE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,1-DICHLOROETHENE	0.006	U	0.006	MG/KG
	LABQC	LB	LB	1,1-DICHLOROETHANE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,1,1-TRICHLOROETHANE	0.004	U	0.004	MG/KG
	LABQC	LB	LB	1,2-DICHLOROBENZENE	0.002	U	0.002	MG/KG
	LABQC	LB	LB	1,2-DIBROMOETHANE	0.003	U	0.003	MG/KG

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712123	SW8260A	LABQC	LB	1,2,3-TRICHLOROPROPANE	0.02	U	0.02	MQ/KG
9712185	E310.1	AHA062EB1	EB	TOTAL ALKALINITY	10	U	10	MGL
		LABQC	LB	TOTAL ALKALINITY	10	U	10	MGL
	SW6010A	AHA062EB1	EB	ALUMINUM	44.2	U	44.2	UG/L
	AHA062EB1	EB	SODIUM	132	F	46.7	UG/L	
	AHA062EB1	EB	LEAD	0.7	U	0.7	UG/L	
	AHA062EB1	EB	IRON	32.4	F	15.3	UG/L	
	AHA062EB1	EB	MAGNESIUM	21.4	U	21.4	UG/L	
	AHA062EB1	EB	POTASSIUM	111	F	40.9	UG/L	
	AHA062EB1	EB	CALCIUM	194		38.5	UG/L	
	PBW	LB	CALCIUM	38.5		38.5	UG/L	
	PBW	LB	LEAD	-0.98	F	0.7	UG/L	
	PBW	LB	ALUMINUM	44.2	U	44.2	UG/L	
	PBW	LB	SODIUM	46.7	U	46.7	UG/L	
	PBW	LB	IRON	25.97	F	15.3	UG/L	
	PBW	LB	MAGNESIUM	-75.79	F	21.4	UG/L	
	PBW	LB	POTASSIUM	40.9	U	40.9	UG/L	
	SW8260A	AHA060TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
	AHA060TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L	
	AHA060TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L	
	AHA060TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L	
	AHA060TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L	
	AHA060TB1	TB	VINYL CHLORIDE	1.1	U	1.1	UG/L	
	AHA060TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L	
	AHA060TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L	
	AHA060TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L	
	AHA060TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L	
	AHA060TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L	
	AHA060TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L	
	AHA060TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L	
	AHA060TB1	TB	STYRENE	0.4	U	0.4	UG/L	
	AHA060TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L	
	AHA060TB1	TB	TRICHLOROETHENE	1	U	1	UG/L	

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712185	SW8260A	AHA060TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA060TB1	TB		TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	AHA060TB1	TB		TOLUENE	1.1	U	1.1	UG/L
	AHA060TB1	TB		1,1-DICHLOROPROPENE	1	U	1	UG/L
	AHA060TB1	TB		TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
	AHA060TB1	TB		1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA060TB1	TB		SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
	AHA060TB1	TB		1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	AHA060TB1	TB		1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	AHA060TB1	TB		1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	AHA060TB1	TB		1,1,2-TRICHLOROETHANE	1	U	1	UG/L
	AHA060TB1	TB		1,3-DICHLOROPROpane	0.4	U	0.4	UG/L
	AHA060TB1	TB		TETRACHLOROETHENE	1.4	U	1.4	UG/L
	AHA060TB1	TB		CHLOROMETHANE	1.3	U	1.3	UG/L
	AHA060TB1	TB		P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	AHA060TB1	TB		OXYLENE	1.1	U	1.1	UG/L
	AHA060TB1	TB		NAPHTHALENE	0.4	U	0.4	UG/L
	AHA060TB1	TB		N-PROPYLBENZENE	0.4	U	0.4	UG/L
	AHA060TB1	TB		N-BUTYLBENZENE	1.1	U	1.1	UG/L
	AHA060TB1	TB		METHYLENE CHLORIDE	0.48	U	0.3	UG/L
	AHA060TB1	TB		M,P-XYLENE	1.3	U	1.3	UG/L
	AHA060TB1	TB		ISOPROPYL BENZENE	0.5	U	0.5	UG/L
	AHA060TB1	TB		HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	AHA060TB1	TB		ETHYL BENZENE	0.6	U	0.6	UG/L
	AHA060TB1	TB		DICHLORODIFLUOROMETHANE	1	U	1	UG/L
	AHA060TB1	TB		DBROMOMETHANE	2.4	U	2.4	UG/L
	AHA060TB1	TB		CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA060TB1	TB		TRICHLOROFUOROMETHANE	0.8	U	0.8	UG/L
	AHA060TB1	TB		BROMOFORM	1.2	U	1.2	UG/L
	AHA060TB1	TB		1-CHLOROHEXANE	0.5	U	0.5	UG/L
	AHA060TB1	TB		2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
	AHA060TB1	TB		2-CHLOROTOLUENE	0.4	U	0.4	UG/L
	AHA060TB1	TB		4-CHLOROTOLUENE	0.6	U	0.6	UG/L

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712185	SW8260A	AHA060TB1	TB	BENZENE	0.4	U	0.4 UGL
	AHA060TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
	AHA060TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA060TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	AHA060TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA060TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L
	AHA060TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	AHA060TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
	AHA060TB1	TB	CHLOROETHANE	1	U	1	UG/L
	AHA060TB1	TB	CHLOROFORM	0.3	U	0.3	UG/L
	AHA060TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	AHA061AB1	AB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
	AHA061AB1	AB	NAPHTHALENE	0.4	U	0.4	UG/L
	AHA061AB1	AB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	AHA061AB1	AB	CHLOROFORM	0.3	U	0.3	UG/L
	AHA061AB1	AB	CHLOROMETHANE	1.3	U	1.3	UG/L
	AHA061AB1	AB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA061AB1	AB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA061AB1	AB	DIBROMOMETHANE	2.4	U	2.4	UG/L
	AHA061AB1	AB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
	AHA061AB1	AB	ETHYL BENZENE	0.6	U	0.6	UG/L
	AHA061AB1	AB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	AHA061AB1	AB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
	AHA061AB1	AB	M,P-XYLENE	1.3	U	1.3	UG/L
	AHA061AB1	AB	METHYLENE CHLORIDE	0.3	U	0.3	UG/L
	AHA061AB1	AB	CHLOROBENZENE	0.4	U	0.4	UG/L
	AHA061AB1	AB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
	AHA061AB1	AB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	AHA061AB1	AB	O-XYLENE	1.1	U	1.1	UG/L
	AHA061AB1	AB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	AHA061AB1	AB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
	AHA061AB1	AB	STYRENE	0.4	U	0.4	UG/L
	AHA061AB1	AB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
97/2185	SW8260A	AHA061AB1	AB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA061AB1	AB	TOLUENE	1.1	U	1.1 UGL
		AHA061AB1	AB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		AHA061AB1	AB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA061AB1	AB	TRICHLOROETHENE	1	U	1 UGL
		AHA061AB1	AB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA061AB1	AB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA061AB1	AB	N-BUTYLBENZENE	1.1	U	1.1 UGL
		AHA061AB1	AB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA061AB1	AB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		AHA061AB1	AB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL
		AHA061AB1	AB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
		AHA061AB1	AB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		AHA061AB1	AB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA061AB1	AB	1,1-DICHLOROPROPENE	1	U	1 UGL
		AHA061AB1	AB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		AHA061AB1	AB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		AHA061AB1	AB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		AHA061AB1	AB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL
		AHA061AB1	AB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		AHA061AB1	AB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL
		AHA061AB1	AB	CHLOROETHANE	1	U	1 UGL
		AHA061AB1	AB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL
		AHA061AB1	AB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		AHA061AB1	AB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
		AHA061AB1	AB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA061AB1	AB	1-CHLOROHEXANE	0.5	U	0.5 UGL
		AHA061AB1	AB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
		AHA061AB1	AB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		AHA061AB1	AB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
		AHA061AB1	AB	BENZENE	0.4	U	0.4 UGL
		AHA061AB1	AB	BROMOBENZENE	0.3	U	0.3 UGL
		AHA061AB1	AB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712185	SW8260A	AHA061ABI	AB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA061ABI	AB	BROMOFORM	1.2	U	1.2	UG/L
		AHA061ABI	AB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA061ABI	AB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA061ABI	AB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA062EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA062EB1	EB	1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA062EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA062EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA062EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA062EB1	EB	BENZENE	0.4	U	0.4	UG/L
		AHA062EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA062EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA062EB1	EB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
		AHA062EB1	EB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA062EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA062EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA062EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA062EB1	EB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA062EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA062EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA062EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		AHA062EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA062EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA062EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA062EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA062EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA062EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA062EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA062EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA062EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA062EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA062EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L

SDG	Method Field ID	OCType	Analyte	Result	LabFlag	RL	Units
9712185	SW8260A	AHA062EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL
	AHA062EB1	EB	M,P-XYLENE	1.3	U	1.3	UG/L
	AHA062EB1	EB	VINYL CHLORIDE	1.1	U	1.1	UG/L
	AHA062EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L
	AHA062EB1	EB	TRICHLOROETHENE	1	U	1	UG/L
	AHA062EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA062EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	AHA062EB1	EB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
	AHA062EB1	EB	STYRENE	0.4	U	0.4	UG/L
	AHA062EB1	EB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
	AHA062EB1	EB	P-ISOPROPYLTOLUENE	1.2	U	1.2	UG/L
	AHA062EB1	EB	O-XYLENE	1.1	U	1.1	UG/L
	AHA062EB1	EB	NAPHTHALENE	0.4	U	0.4	UG/L
	AHA062EB1	EB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
	AHA062EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
	AHA062EB1	EB	METHYLENE CHLORIDE	0.3	U	0.3	UG/L
	AHA062EB1	EB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L
	AHA062EB1	EB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
	AHA062EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
	AHA062EB1	EB	ETHYLBENZENE	0.6	U	0.6	UG/L
	AHA062EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
	AHA062EB1	EB	DI(BROMOMETHANE)	2.4	U	2.4	UG/L
	AHA062EB1	EB	DI(BROMOCHLOROMETHANE)	0.5	U	0.5	UG/L
	AHA062EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	AHA062EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	AHA062EB1	EB	CHLOROMETHANE	1.3	U	1.3	UG/L
	AHA062EB1	EB	CHLOROFORM	0.3	U	0.3	UG/L
	AHA062EB1	EB	CHLOROETHANE	1	U	1	UG/L
	AHA062EB1	EB	CHLOROBENZENE	0.4	U	0.4	UG/L
	AHA062EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	AHA062EB1	EB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
	AHA062EB1	EB	TOLUENE	1.1	U	1.1	UG/L
	LABQC	LB	O-XYLENE	1.1	U	1.1	UG/L

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712185	SW8260A LABQC	LB	4-CHLORTOLUENE	0.6	U	0.6	UG/L
	LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	CHLORBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
	LABQC	LB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
	LABQC	LB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
	LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
	LABQC	LB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
	LABQC	LB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
	LABQC	LB	BROMOBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	TRICHLOROETHENE	1	U	1	UG/L
	LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	TOLUENE	1.1	U	1.1	UG/L
	LABQC	LB	DIBROMOMETHANE	2.4	U	2.4	UG/L
	LABQC	LB	TETRAChLOROETHENE	1.4	U	1.4	UG/L
	LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
	LABQC	LB	BENZENE	0.4	U	0.4	UG/L
	LABQC	LB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
	LABQC	LB	ETHYL BENZENE	0.6	U	0.6	UG/L
	LABQC	LB	N-BUTYL BENZENE	1.1	U	1.1	UG/L
	LABQC	LB	NAPHTHALENE	0.4	U	0.4	UG/L
	LABQC	LB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
	LABQC	LB	CHLOROFORM	0.3	U	0.3	UG/L
	LABQC	LB	CHLOROETHANE	1	U	1	UG/L
	LABQC	LB	TRICHLOROFUOROMETHANE	0.8	U	0.8	UG/L
	LABQC	LB	TERt-BUTYL BENZENE	1.4	U	1.4	UG/L
	LABQC	LB	CHLOROMETHANE	1.3	U	1.3	UG/L
	LABQC	LB	N-PROPYL BENZENE	0.4	U	0.4	UG/L
	LABQC	LB	BROMOFORM	1.2	U	1.2	UG/L
	LABQC	LB	STYRENE	0.4	U	0.4	UG/L
	LABQC	LB	METHYLENE CHLORIDE	0.44	U	0.3	UG/L

SDG	Method Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712185	SW8260A LABQC	LB	BROMOMETHANE	1.1	U	1.1	UG/L
	.LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
	LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
	LABQC	LB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
	LABQC	LB	M,P,XYLENE	1.3	U	1.3	UG/L
	LABQC	LB	VINYLCHLORIDE	1.1	U	1.1	UG/L
	LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
	LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
	LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
	LABQC	LB	1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
	LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
	LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
	LABQC	LB	1,2-DIBromo-3-CHLOROPROPANE	2.6	U	2.6	UG/L
	LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
	LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
	LABQC	LB	1,1-DICHLOROPROPENE	1	U	1	UG/L
	LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
	LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
	LABQC	LB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
	LABQC	LB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
	LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
	LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
	LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
	LABQC	LB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
SW9056	AHA062EB1	BB	ORTHOPHOSPHATE	0.1	U	0.1	MGL
	AHA062EB1	BB	BROMIDE	0.1	U	0.1	MGL
	AHA062EB1	BB	SULFATE	0.2	U	0.2	MGL
	AHA062EB1	BB	NITRITE	0.4	U	0.4	MGL
	AHA062EB1	BB	NITRATE	0.1	U	0.1	MGL
	AHA062EB1	BB	FLUORIDE	0.2	U	0.2	MGL
	AHA062EB1	BB	CHLORIDE	0.2	U	0.2	MGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712185	SW9056	LABQC	LB	BROMIDE	0.1	U	0.1	MGL
		LABQC	LB	FLUORIDE	0.2	U	0.2	MGL
		LABQC	LB	SULFATE	0.2	U	0.2	MGL
		LABQC	LB	ORTHOPHOSPHATE	0.1	U	0.1	MGL
		LABQC	LB	NITRATE	0.1	U	0.1	MGL
		LABQC	LB	CHLORIDE	0.2	U	0.2	MGL
		LABQC	LB	NITRITE	0.4	U	0.4	MGL
		AHA062EB1	EB	TOTAL ORGANIC CARBON	1	U	1	MGL
		LABQC	LB	TOTAL ORGANIC CARBON	1	U	1	MGL
9712202	E310.1	AHA071EB1	EB	TOTAL ALKALINITY	10	U	10	MGL
		LABQC	LB	TOTAL ALKALINITY	10	U	10	MGL
		SW6010A	AHA071EB1	POTASSIUM	69.9	U	69.9	UG/L
		AHA071EB1	EB	ALUMINUM	44.2	U	44.2	UG/L
		AHA071EB1	EB	CALCIUM	122		104	UG/L
		AHA071EB1	EB	IRON	18.4	F	8	UG/L
		AHA071EB1	EB	LEAD	31.2		31.2	UG/L
		AHA071EB1	EB	MAGNESIUM	95.4	U	95.4	UG/L
		AHA071EB1	EB	SODIUM	60.5	U	60.5	UG/L
		PBW	LB	SODIUM	60.5		60.5	UG/L
		PBW	LB	LEAD	31.2		31.2	UG/L
		PBW	LB	POTASSIUM	69.9	U	69.9	UG/L
		PBW	LB	MAGNESIUM	95.4	U	95.4	UG/L
		PBW	LB	ALUMINUM	44.2	U	44.2	UG/L
		PBW	LB	CALCIUM	104	U	104	UG/L
		PBW	LB	IRON	12.46	F	8	UG/L
		SW3260A	AHA070TB1	1,2-DICHLOROPROpane	0.4	U	0.4	UG/L
		AHA070TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA070TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA070TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA070TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA070TB1	TB	2,2-DICHLOROPROPANE	3.5	U	3.5	UG/L
		AHA070TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA070TB1	TB	BENZENE	0.4	U	0.4	UG/L

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL Units
9712202	SW8260A	AHA070TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL
	AHA070TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL	
	AHA070TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4 UGL	
	AHA070TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL	
	AHA070TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL	
	AHA070TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3 UGL	
	AHA070TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL	
	AHA070TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL	
	AHA070TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL	
	AHA070TB1	TB	BROMOBENZENE	0.3	U	0.3 UGL	
	AHA070TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL	
	AHA070TB1	TB	CHLOROBENZENE	0.4	U	0.4 UGL	
	AHA070TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1 UGL	
	AHA070TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4 UGL	
	AHA070TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL	
	AHA070TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL	
	AHA070TB1	TB	1,1-DICHLOROPROPENE	1	U	1 UGL	
	AHA070TB1	TB	TETRACHLOROETHENE	1.4	U	1.4 UGL	
	AHA070TB1	TB	BROMOMETHANE	1.1	U	1.1 UGL	
	AHA070TB1	TB	N-PROPYLBENZENE	0.4	U	0.4 UGL	
	AHA070TB1	TB	NAPHTHALENE	0.4	U	0.4 UGL	
	AHA070TB1	TB	OXYLENE	1.1	U	1.1 UGL	
	AHA070TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2 UGL	
	AHA070TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3 UGL	
	AHA070TB1	TB	METHYLENE CHLORIDE	0.3	U	0.3 UGL	
	AHA070TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL	
	AHA070TB1	TB	M,P-XYLENE	1.3	U	1.3 UGL	
	AHA070TB1	TB	TOLUENE	1.1	U	1.1 UGL	
	AHA070TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL	
	AHA070TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL	
	AHA070TB1	TB	TRICHLOROETHENE	1	U	1 UGL	
	AHA070TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL	
	AHA070TB1	TB	VINYL CHLORIDE	1.1	U	1.1 UGL	

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
97/2202	SW8260A	AHA0707TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA0707TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA0707TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA0707TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
		AHA0707TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA0707TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA0707TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA0707TB1	TB	CHLOROFORM	0.74		0.3	UG/L
		AHA0707TB1	TB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA0707TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA0707TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA0707TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA0707TB1	TB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA0707TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA0707TB1	TB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA0707TB1	TB	HEXAChLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA0707TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA0707TB1	TB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA0707TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA071EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA071EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA071EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA071EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA071EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA071EB1	EB	1,2,DBROMOETHANE	0.6	U	0.6	UG/L
		AHA071EB1	EB	1,2,DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA071EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA071EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA071EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA071EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA071EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA071EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA071EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9712202	SW8260A	AHA071EBI	EB	1,1,2-TRICHLOROETHANE	1	U	1 UGL
		AHA071EBI	EB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		AHA071EBI	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		AHA071EBI	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5 UGL
		AHA071EBI	EB	O-XYLENE	1.1	U	1.1 UGL
		AHA071EBI	EB	VINYL CHLORIDE	1.1	U	1.1 UGL
		AHA071EBI	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA071EBI	EB	TRICHLOROETHENE	1	U	1 UGL
		AHA071EBI	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA071EBI	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6 UGL
		AHA071EBI	EB	TOLUENE	1.1	U	1.1 UGL
		AHA071EBI	EB	TERT-BUTYL BENZENE	1.4	U	1.4 UGL
		AHA071EBI	EB	SEC-BUTYL BENZENE	1.3	U	1.3 UGL
		AHA071EBI	EB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		AHA071EBI	EB	CHLOROETHANE	1	U	1 UGL
		AHA071EBI	EB	N-PROPYLBENZENE	0.4	U	0.4 UGL
		AHA071EBI	EB	N-BUTYLBENZENE	1.1	U	1.1 UGL
		AHA071EBI	EB	METHYLENE CHLORIDE	0.3	U	0.3 UGL
		AHA071EBI	EB	M,P-XYLENE	1.3	U	1.3 UGL
		AHA071EBI	EB	ISOPROPYLBENZENE	0.5	U	0.5 UGL
		AHA071EBI	EB	HEXACHLOROBUTADIENE	1.1	U	1.1 UGL
		AHA071EBI	EB	ETHYL BENZENE	0.6	U	0.6 UGL
		AHA071EBI	EB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA071EBI	EB	DIBROMOMETHANE	2.4	U	2.4 UGL
		AHA071EBI	EB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
		AHA071EBI	EB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA071EBI	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA071EBI	EB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL
		AHA071EBI	EB	CHLOROFORM	0.3	U	0.3 UGL
		AHA071EBI	EB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL
		AHA071EBI	EB	CHLOROBENZENE	0.4	U	0.4 UGL
		AHA071EBI	EB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL
		AHA071EBI	EB	BROMOMETHANE	1.1	U	1.1 UGL

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9712202	SW8260A	AHA071EB1	EB	BROMOFORM	1.2	U	1.2 UGL
		AHA071EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8 UGL
		AHA071EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL
		AHA071EB1	EB	BROMOBENZENE	0.3	U	0.3 UGL
		AHA071EB1	EB	BENZENE	0.4	U	0.4 UGL
		AHA071EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
		AHA071EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		AHA071EB1	EB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
		AHA071EB1	EB	1-CHLOROHEXANE	0.5	U	0.5 UGL
		AHA071EB1	EB	STYRENE	0.4	U	0.4 UGL
		AHA071EB1	EB	CHLOROMETHANE	1.3	U	1.3 UGL
		AHA071EB1	EB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		AHA071EB1	EB	NAPHTHALENE	0.4	U	0.4 UGL
		LABQC	LB	4-CHLOROTOLUENE	0.6	U	0.6 UGL
		LABQC	LB	TRICHLOROETHENE	1	U	1 UGL
		LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
		LABQC	LB	METHYLENE CHLORIDE	0.44	U	0.3 UGL
		LABQC	LB	N-PROPYLBENZENE	0.4	U	0.4 UGL
		LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		LABQC	LB	2-CHLOROTOLUENE	0.4	U	0.4 UGL
		LABQC	LB	METHYLENE CHLORIDE	0.86	U	0.3 UGL
		LABQC	LB	BROMOFORM	1.2	U	1.2 UGL
		LABQC	LB	BENZENE	0.4	U	0.4 UGL
		LABQC	LB	SEC-BUTYLBENZENE	1.3	U	1.3 UGL
		LABQC	LB	TETRACHLOROETHENE	1.4	U	1.4 UGL
		LABQC	LB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL
		LABQC	LB	CHLOROFORM	0.3	U	0.3 UGL
		LABQC	LB	ETHYLBENZENE	0.6	U	0.6 UGL
		LABQC	LB	N-BUTYLBENZENE	1.1	U	1.1 UGL
		LABQC	LB	CHLOROETHANE	1	U	1 UGL
		LABQC	LB	DIBROMOMETHANE	2.4	U	2.4 UGL
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1	U	1 UGL
		LABQC	LB	P-ISOPROPYLTOLUENE	1.2	U	1.2 UGL

SDG	Method	Field ID	QC Type	Analyte		Result	LabFlag	RL	Units
9712202	SW8260A	LABQC	LB	BROMOBENZENE		0.3	U	0.3	UG/L
		LABQC	LB	1-CHLOROHEXANE		0.5	U	0.5	UG/L
		LABQC	LB	OXYLENE		1.1	U	1.1	UG/L
		LABQC	LB	TRICHLOROFLUOROMETHANE		0.8	U	0.8	UG/L
		LABQC	LB	CIS-1,2-DICHLOROETHENE		1.2	U	1.2	UG/L
		LABQC	LB	ISOPROPYL BENZENE		0.5	U	0.5	UG/L
		LABQC	LB	DICHLORODIFLUOROMETHANE		1	U	1	UG/L
		LABQC	LB	TERT-BUTYL BENZENE		1.4	U	1.4	UG/L
		LABQC	LB	HEXAACHLOROBUTADIENE		1.1	U	1.1	UG/L
		LABQC	LB	M,P-XYLENE		1.3	U	1.3	UG/L
		LABQC	LB	BROMOCHLOROMETHANE		0.4	U	0.4	UG/L
		LABQC	LB	CHLOROMETHANE		1.3	U	1.3	UG/L
		LABQC	LB	NAPHTHALENE		0.4	U	0.4	UG/L
		LABQC	LB	BROMOMETHANE		1.1	U	1.1	UG/L
		LABQC	LB	STYRENE		0.4	U	0.4	UG/L
		LABQC	LB	TOLUENE		1.1	U	1.1	UG/L
		LABQC	LB	CHLOROBENZENE		0.4	U	0.4	UG/L
		LABQC	LB	TRANS-1,2-DICHLOROETHENE		0.6	U	0.6	UG/L
		LABQC	LB	CARBON TETRACHLORIDE		2.1	U	2.1	UG/L
		LABQC	LB	VINYL CHLORIDE		1.1	U	1.1	UG/L
		LABQC	LB	BROMODICHLOROMETHANE		0.8	U	0.8	UG/L
		LABQC	LB	1,3,5-TRIMETHYL BENZENE		0.5	U	0.5	UG/L
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE		0.5	U	0.5	UG/L
		LABQC	LB	1,2-DIBROMOETHANE		0.6	U	0.6	UG/L
		LABQC	LB	1,3-DICHLOROPROpane		0.4	U	0.4	UG/L
		LABQC	LB	1,2-DICHLOROPROPANE		0.4	U	0.4	UG/L
		LABQC	LB	1,1,2-TRICHLOROETHANE		1	U	1	UG/L
		LABQC	LB	1,1-DICHLOROPROPENE		1	U	1	UG/L
		LABQC	LB	1,2,4-TRIMETHYL BENZENE		1.3	U	1.3	UG/L
		LABQC	LB	1,2-DICHLOROBENZENE		0.3	U	0.3	UG/L
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE		0.4	U	0.4	UG/L
		LABQC	LB	1,3-DICHLOROBENZENE		1.2	U	1.2	UG/L
		LABQC	LB	1,2-DICHLOROETHANE		0.6	U	0.6	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9712202	SW8260A	LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4 UGL
		LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6 UGL
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2 UGL
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3 UGL
		LABQC	LB	1,1-DICHLOROETHENE	1.2	U	1.2 UGL
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8	U	0.8 UGL
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4 UGL
		AHA071EB1	EB	NITRITE	0.4	U	0.4 MGL
		AHA071EB1	EB	ORTHOPHOSPHATE	0.1	U	0.1 MGL
9712205	SW9056	AHA071EB1	EB	NITRATE	0.1	U	0.1 MGL
		AHA071EB1	EB	FLUORIDE	0.2	U	0.2 MGL
		AHA071EB1	EB	CHLORIDE	0.2	U	0.2 MGL
		AHA071EB1	EB	BROMIDE	0.1	U	0.1 MGL
		AHA071EB1	EB	SULFATE	0.2	U	0.2 MGL
		LABQC	LB	NITRITE	0.4	U	0.4 MGL
		LABQC	LB	NITRATE	0.1	U	0.1 MGL
		LABQC	LB	BROMIDE	0.1	U	0.1 MGL
		LABQC	LB	ORTHOPHOSPHATE	0.1	U	0.1 MGL
		LABQC	LB	FLUORIDE	0.2	U	0.2 MGL
9712206	SW9060	LABQC	LB	SULFATE	0.2	U	0.2 MGL
		LABQC	LB	CHLORIDE	0.2	U	0.2 MGL
		AHA071EB1	EB	TOTAL ORGANIC CARBON	1	U	1 MGL
		LABQC	LB	TOTAL ORGANIC CARBON	1	U	1 MGL
		AHA079TB1	TB	N-PROPYLBENZENE	0.4	U	0.4 UGL
		AHA079TB1	TB	CHLOROMETHANE	1.3	U	1.3 UGL
		AHA079TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL
		AHA079TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL
		AHA079TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL
		AHA079TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL
9712205	SW8260A	AHA079TB1	TB	DIBROMOMETHANE	2.4	U	2.4 UGL
		AHA079TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1 UGL
		AHA079TB1	TB	ETHYLBENZENE	0.6	U	0.6 UGL

SDG	Method	Field ID	QC Type	Analyte	Result	LabFlag	RL	Units
9712205	SW8260A	AHA079TB1	TB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA079TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA079TB1	TB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA079TB1	TB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA079TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA079TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA079TB1	TB	CHLOROFORM	0.67	U	0.3	UG/L
		AHA079TB1	TB	VINYL CHLORIDE	1.1	U	1.1	UG/L
		AHA079TB1	TB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA079TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA079TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA079TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA079TB1	TB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA079TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
		AHA079TB1	TB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA079TB1	TB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
		AHA079TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA079TB1	TB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA079TB1	TB	METHYLENE CHLORIDE	0.3	U	0.3	UG/L
		AHA079TB1	TB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA079TB1	TB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA079TB1	TB	TRICHLOROETHENE	1	U	1	UG/L
		AHA079TB1	TB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA079TB1	TB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA079TB1	TB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA079TB1	TB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA079TB1	TB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA079TB1	TB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L
		AHA079TB1	TB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712205	SW8260A	AHA079TB1	TB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA079TB1	TB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L
		AHA079TB1	TB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA079TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
		AHA079TB1	TB	BROMOCHLOROMETHANE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA079TB1	TB	BENZENE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,2-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA079TB1	TB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
		AHA079TB1	TB	1-CHLOROHEXANE	0.5	U	0.5	UG/L
		AHA079TB1	TB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA079TB1	TB	1,3-DICHLOROPROPANE	0.4	U	0.4	UG/L
		AHA079TB1	TB	1,3-DICHLOROBENZENE	1.2	U	1.2	UG/L
		AHA079TB1	TB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5	UG/L
		AHA079TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA079TB1	TB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA079TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	METHYLENE CHLORIDE	0.3	U	0.3	UG/L
		AHA080EB1	EB	1,2,3-TRICHLOROPROPANE	3.2	U	3.2	UG/L
		AHA080EB1	EB	1,2,3-TRICHLOROBENZENE	0.3	U	0.3	UG/L
		AHA080EB1	EB	1,1-DICHLOROPROPENE	1	U	1	UG/L
		AHA080EB1	EB	1,1-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA080EB1	EB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		AHA080EB1	EB	1,1,2-TRICHLOROETHANE	1	U	1	UG/L
		AHA080EB1	EB	1,1,2,2-TETRACHLOROETHANE	0.4	U	0.4	UG/L
		AHA080EB1	EB	1,1,1-TRICHLOROETHANE	0.8	U	0.8	UG/L
		AHA080EB1	EB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA080EB1	EB	ETHYL BENZENE	0.6	U	0.6	UG/L
		AHA080EB1	EB	HEXACHLOROBUTADIENE	1.1	U	1.1	UG/L
		AHA080EB1	EB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA080EB1	EB	M,P-XYLENE	1.3	U	1.3	UG/L
		AHA080EB1	EB	1,2-DIBROMO-3-CHLOROPROPANE	2.6	U	2.6	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
971220S	SW8260A	AHA080EB1	EB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA080EB1	EB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	OXYLENE	1.1	U	1.1	UG/L
		AHA080EB1	EB	P-ISOPROPYL TOLUENE	1.2	U	1.2	UG/L
		AHA080EB1	EB	SEC-BUTYL BENZENE	1.3	U	1.3	UG/L
		AHA080EB1	EB	STYRENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	TERT-BUTYL BENZENE	1.4	U	1.4	UG/L
		AHA080EB1	EB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA080EB1	EB	TOLUENE	1.1	U	1.1	UG/L
		AHA080EB1	EB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA080EB1	EB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA080EB1	EB	TRICHLOROETHENE	1	U	1	UG/L
		AHA080EB1	EB	ISOPROPYL BENZENE	0.5	U	0.5	UG/L
		AHA080EB1	EB	BENZENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	DBROMOMETHANE	2.4	U	2.4	UG/L
		AHA080EB1	EB	DBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA080EB1	EB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA080EB1	EB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA080EB1	EB	CHLOROMETHANE	1.3	U	1.3	UG/L
		AHA080EB1	EB	CHLOROFORM	0.3	U	0.3	UG/L
		AHA080EB1	EB	CHLOROETHANE	1	U	1	UG/L
		AHA080EB1	EB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	CARBON TETRACHLORIDE	2.1	U	2.1	UG/L
		AHA080EB1	EB	BROMOMETHANE	1.1	U	1.1	UG/L
		AHA080EB1	EB	BROMOFORM	1.2	U	1.2	UG/L
		AHA080EB1	EB	BROMODICHLOROMETHANE	0.8	U	0.8	UG/L
		AHA080EB1	EB	1,2,4-TRICHLOROBENZENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	BROMOBENZENE	0.3	U	0.3	UG/L
		AHA080EB1	EB	1,2,4-TRIMETHYLBENZENE	1.3	U	1.3	UG/L
		AHA080EB1	EB	4-CHLOROTOLUENE	0.6	U	0.6	UG/L
		AHA080EB1	EB	2-CHLOROTOLUENE	0.4	U	0.4	UG/L
		AHA080EB1	EB	2,2-DICHLOROPROpane	3.5	U	3.5	UG/L

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL Units
9712205	SW8260A	AHA080EB1	EB	1-CHLOROHEXANE	0.5	U	0.5 UGL
	AHA080EB1	EB	1,4-DICHLOROBENZENE	0.3	U	0.3 UGL	
	AHA080EB1	EB	1,3-DICHLOROPROPANE	0.4	U	0.4 UGL	
	AHA080EB1	EB	1,3-DICHLOROBENZENE	1.2	U	1.2 UGL	
	AHA080EB1	EB	1,3,5-TRIMETHYLBENZENE	0.5	U	0.5 UGL	
	AHA080EB1	EB	1,2-DICHLOROPROPANE	0.4	U	0.4 UGL	
	AHA080EB1	EB	1,2-DICHLOROETHANE	0.6	U	0.6 UGL	
	AHA080EB1	EB	1,2-DICHLOROBENZENE	0.3	U	0.3 UGL	
	AHA080EB1	EB	1,2-DIBROMOETHANE	0.6	U	0.6 UGL	
	AHA080EB1	EB	VINYL CHLORIDE	1.1	U	1.1 UGL	
	AHA080EB1	EB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL	
	AHA080EB1	EB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL	
	LABQC	LB	CHLOROMETHANE	1.3	U	1.3 UGL	
	LABQC	LB	CHLOROBENZENE	0.4	U	0.4 UGL	
	LABQC	LB	CIS-1,3-DICHLOROPROPENE	1	U	1 UGL	
	LABQC	LB	DIBROMOCHLOROMETHANE	0.5	U	0.5 UGL	
	LABQC	LB	TRICHLOROETHENE	1	U	1 UGL	
	LABQC	LB	BROMOCHLOROMETHANE	0.4	U	0.4 UGL	
	LABQC	LB	4-CHLORTOLUENE	0.6	U	0.6 UGL	
	LABQC	LB	CHLOROFORM	0.3	U	0.3 UGL	
	LABQC	LB	BROMOBENZENE	0.3	U	0.3 UGL	
	LABQC	LB	BROMOFORM	1.2	U	1.2 UGL	
	LABQC	LB	2,2-DICHLOROPROPANE	3.5	U	3.5 UGL	
	LABQC	LB	BENZENE	0.4	U	0.4 UGL	
	LABQC	LB	2-CHLORTOLUENE	0.4	U	0.4 UGL	
	LABQC	LB	1-CHLOROHEXANE	0.5	U	0.5 UGL	
	LABQC	LB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2 UGL	
	LABQC	LB	CHLOROETHANE	1	U	1 UGL	
	LABQC	LB	BROMOMETHANE	1.1	U	1.1 UGL	
	LABQC	LB	VINYL CHLORIDE	1.1	U	1.1 UGL	
	LABQC	LB	CARBON TETRACHLORIDE	2.1	U	2.1 UGL	
	LABQC	LB	DIBROMOMETHANE	2.4	U	2.4 UGL	
	LABQC	LB	TRICHLOROFLUOROMETHANE	0.8	U	0.8 UGL	

SDG	Method Field ID	QCType	Analyte	Result LabFlag	RL Units
9712205	SW8200A	LABQC	LB	BROMODICHLOROMETHANE	0.8 U
		LABQC	LB	N-PROPYLBENZENE	0.4 U
		LABQC	LB	TRANS-1,2-DICHLOROETHENE	0.6 U
		LABQC	LB	P-ISOPROPYL TOLUENE	1.2 U
		LABQC	LB	SEC-BUTYLBENZENE	1.3 U
		LABQC	LB	TOLUENE	1.1 U
		LABQC	LB	NAPHTHALENE	0.4 U
		LABQC	LB	METHYLENE CHLORIDE	0.72 U
		LABQC	LB	DICHLORODIFLUOROMETHANE	1 U
		LABQC	LB	STYRENE	0.4 U
		LABQC	LB	N-BUTYLBENZENE	1.1 U
		LABQC	LB	M,P-XYLENE	1.3 U
		LABQC	LB	ISOPROPYLBENZENE	0.5 U
		LABQC	LB	TETRACHLOROETHENE	1.4 U
		LABQC	LB	TERT-BUTYL BENZENE	1.4 U
		LABQC	LB	TRANS-1,3-DICHLOROPROPENE	1 U
		LABQC	LB	O-XYLENE	1.1 U
		LABQC	LB	ETHYLBENZENE	0.6 U
		LABQC	LB	HEXACHLOROBUTADIENE	1.1 U
		LABQC	LB	1,1,2-TRICHLOROETHANE	1 U
		LABQC	LB	1,2,3-TRICHLOROBENZENE	0.3 U
		LABQC	LB	1,1-DICHLOROETHENE	1.2 U
		LABQC	LB	1,3-DICHLOROBENZENE	1.2 U
		LABQC	LB	1,1-DICHLOROPROPENE	1 U
		LABQC	LB	1,3,5-TRIMETHYLBENZENE	0.5 U
		LABQC	LB	1,2-DIBROMO-3-CHLOROPROPANE	2.6 U
		LABQC	LB	1,2,3-TRICHLOROPROPANE	3.2 U
		LABQC	LB	1,2-DICHLOROBENZENE	0.3 U
		LABQC	LB	1,1,1-TRICHLOROETHANE	0.8 U
		LABQC	LB	1,1,2,2-TETRACHLOROETHANE	0.4 U
		LABQC	LB	1,2,4-TRICHLOROBENZENE	0.4 U
		LABQC	LB	1,2,4-TRIMETHYLBENZENE	1.3 U
		LABQC	LB	1,3-DICHLOROPROPANE	0.4 U

SDG	Method	Field ID	QCType	Analyte	Result	LabFlag	RL	Units
9712205	SW8260A	LABQC	LB	1,4-DICHLOROBENZENE	0.3	U	0.3	UG/L
		LABQC	LB	1,2-DIBROMOETHANE	0.6	U	0.6	UG/L
		LABQC	LB	1,2-DICHLOROPROPANE	0.4	U	0.4	UG/L
		LABQC	LB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		LABQC	LB	1,1-DICHLOROETHANE	0.4	U	0.4	UG/L
		LABQC	LB	1,2-DICHLOROETHANE	0.6	U	0.6	UG/L
9712227	SW8260A	AHA086TB1	TB	N-PROPYLBENZENE	0.4	U	0.4	UG/L
		AHA086TB1	TB	1,1,1,2-TETRACHLOROETHANE	0.5	U	0.5	UG/L
		AHA086TB1	TB	CHLOROBENZENE	0.4	U	0.4	UG/L
		AHA086TB1	TB	CHLOROETHANE	1	U	1	UG/L
		AHA086TB1	TB	CHLOROFORM	0.84	U	0.3	UG/L
		AHA086TB1	TB	CHLORMETHANE	1.3	U	1.3	UG/L
		AHA086TB1	TB	CIS-1,2-DICHLOROETHENE	1.2	U	1.2	UG/L
		AHA086TB1	TB	CIS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA086TB1	TB	DIBROMOCHLOROMETHANE	0.5	U	0.5	UG/L
		AHA086TB1	TB	DIBROMOMETHANE	2.4	U	2.4	UG/L
		AHA086TB1	TB	DICHLORODIFLUOROMETHANE	1	U	1	UG/L
		AHA086TB1	TB	ETHYLBENZENE	0.6	U	0.6	UG/L
		AHA086TB1	TB	ISOPROPYLBENZENE	0.5	U	0.5	UG/L
		AHA086TB1	TB	N-BUTYLBENZENE	1.1	U	1.1	UG/L
		AHA086TB1	TB	BROMOFORM	1.2	U	1.2	UG/L
		AHA086TB1	TB	NAPHTHALENE	0.4	U	0.4	UG/L
		AHA086TB1	TB	O-XYLENE	1.1	U	1.1	UG/L
		AHA086TB1	TB	P-ISOPROPYLtoluene	1.2	U	1.2	UG/L
		AHA086TB1	TB	SEC-BUTYLBENZENE	1.3	U	1.3	UG/L
		AHA086TB1	TB	STYRENE	0.4	U	0.4	UG/L
		AHA086TB1	TB	TERT-BUTYLBENZENE	1.4	U	1.4	UG/L
		AHA086TB1	TB	TETRACHLOROETHENE	1.4	U	1.4	UG/L
		AHA086TB1	TB	TOLUENE	1.1	U	1.1	UG/L
		AHA086TB1	TB	TRANS-1,2-DICHLOROETHENE	0.6	U	0.6	UG/L
		AHA086TB1	TB	TRANS-1,3-DICHLOROPROPENE	1	U	1	UG/L
		AHA086TB1	TB	TRICHLOROETHENE	1	U	1	UG/L
		AHA086TB1	TB	TRICHLOROFLUOROMETHANE	0.8	U	0.8	UG/L

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